

PHOTO: SOUTH SIDE LOW ROOF AREAS

13/A203



PHOTO: SOUTH SIDE LOW ROOF AREAS

35A203



PHOTO: EAST END



PHOTO: SOUTH SIDE LOW ROOF AREAS

14/A203



PHOTO: NORTH LOW ROOF RAILING

16/A203



PHOTO: SOUTH SIDE

18/A203

	KEYED EXTERIOR PHOTOGRAPH NOTES			52
	NOTES APPLY TO SHEETS A201 - A204	tec		T 841
	KEYED NOTES ARE NOT ADDED TO EVERY ITEM IN EVERY PHOTOGRAPH, PRIMARILY AT THE CLOSER PART OF THE BUILDING AND SITE IN WHOLE BUILDING PHOTOGRAPHS.	archi	, plic	Lake City, U 2451
	EXISTING WORK NOTES: EXISTING BOILER STACK / CHIMNEY. SEE STRUCTURAL DRAWINGS. EXISTING VENT, FLUE OR OTHER PENETRATION TO REMAIN. PRIOR TO REMOVAL OF ROOFING MATERIALS, INSTALL TEMPORARY METAL STRAP ON ALL EXISTING FLUES AND VENTS TO SECURE IN PLACE DURING CONSTRUCTION.	radlev ovoi	associates	Box 521048   Salt Lake   801 · 747 · 2451
	EXISTING METAL PARAPET BRACING. SEE STRUCTURAL DRAWINGS. EXISTING METAL RAILING(S) ON ROOF. PROTECT IN PLACE OR REMOVE AND REINSTALL TO ACCOMMODATE ROOFING WORK. EXISTING METAL LADDER. PROTECT IN PLACE OR REMOVE AND REINSTALL TO ACCOMMODATE ROOFING WORK.	vni b		PO
	EXISTING EGRESS STAIR. COORDINATE WITH STRUCTURAL DRAWINGS FOR PLYWOOD SHEATHING. REMOVE EXISTING SHEATHING TO PROVIDE ACCESS FOR WORK BELOW ROOF DECK. TYPICAL ALL AREAS.	STAMP:		
	DEMOLITION AND NEW WORK NOTES:	TUIL	ATE OF	UT A
$\langle 1 \rangle$	REMOVE EXISTING AND INSTALL NEW ASPHALT SHINGLES WITH SECONDARY UNDERLAYMENT AT ENTIRE ROOF AREA. COORDINATE WITH STRUCTURAL DRAWINGS FOR PLYWOOD SHEATHING.	S * I	BRADLE GYG No. 611	1 *8
2	REMOVE EXISTING AND INSTALL NEW METAL ROOFING SYSTEM WITH SECONDARY UNDERLAYMENT AND NEW EDGE METAL AT STAIR AREA. NEW ROOF-TO-WALL FLASHINGS OVER EXISTING EIFS AT SIDES.	and the	NSED A	RCHITCHIL
3	REMOVE EXISTING BUILT UP ROOFING AND INSTALL NEW FULLY ADHERED PVC ROOFING SYSTEM. SEE SHEET A121 FOR TAPERED INSULATION, COVER BOARDS, ETC.		AKE	
$\langle 4 \rangle$	REMOVE EXISTING AND INSTALL NEW EDGE METAL. PAINT EXISTING STONE AND/OR WOOD TRIM BELOW. SEE C,D/A122. SEE C,D/A122.		- STAKI	
5	REMOVE EXISTING SHEET METAL AND INSTALL NEW PVC COATED EDGE METAL / GRAVEL STOP WITH NEW METAL FASCIA, AND TRIM.	c	,z VEST	WEST T
6	REMOVE EXISTING AND INSTALL NEW METAL PARAPET CAP, WITH ROOF MEMBRANE AND BASE FLASHING AT ROOF SIDE. PAINT EXISTING STONE AND/OR WOOD TRIM BELOW.		CACHE WES	SOUTH 200 WE LOGAN, UT
< <u>7</u> >	REMOVE EXISTING AND INSTALL NEW METAL CAP AND WALL COUNTER FLASHING AT LOWER CORNICE. PAINT EXISTING CROWN MOLDING, DENTILS, AND TRIM BELOW.	-		89 SOL
<b>(9)</b>	REMOVE EXISTING AND INSTALL NEW WALL FLASHINGS AT LOWER ROOF TO WALL CONNECTION (SHINGLES WITH METAL FLASHINGS AT LOWER ROOF).		-OGAN	
	REMOVE EXISTING AND INSTALL NEW WALL FLASHINGS AT LOWER ROOF TO WALL CONNECTION (LOW SLOPE ROOFING AT LOWER ROOF).			
	REMOVE EXISTING AND INSTALL NEW METAL SCUPPER FLASHINGS AT EXISTING SCUPPER OPENING.		ľ	
(12)	NEW 12" WIDE SCUPPER OPENING IN EXISTING MASONRY WALL. SEE C/A126 FOR NEW FLASHING.		OF	STUI
13	NEW PIPE FLASHINGS AT EXISTING METAL PARAPET BRACES. DISCONNECT AND RECONNECT BRACES TO INSTALL FLASHINGS.	FOR:	6	H K ay sai
14	REMOVE EXISTING SKYLIGHT AND CURB, AND FILL IN OPENING WITH FRAMING AND ROOF SHEATHING. MAINTAIN EXISTING CHASE BELOW AT INTERIOR OF BUILDING FOR ELECTRICAL, HVAC AND OTHER WORK.	PROJECT FOR:	E CHURCH	US C.
	REMOVE EXISTING AND INSTALL NEW ROOF DRAIN RD-1. SEE DETAIL A/A127 AND PLUMBING SPECIFICATIONS. CONNECT TO EXISTING ROOF DRAIN PIPING BELOW DECK.		THE	LESU OF LAT
	NEW FLASHING AT EXISTING OR NEW VENT OR FLUE PIPING. EXTEND TO BE 16" MINIMUM ABOVE ROOF. PAINT.		r	
	REMOVE EXISTING AND REINSTALL SALVAGED EXISTING HVAC PENTHOUSE ON NEW CURB. CURB TO BE 16" MINIMUM ABOVE ADJACENT ROOF LEVEL. SEE F/A125 AND MECHANICAL DRAWINGS.			
	HVAC PENTHOUSE ON NEW CURB. CURB TO BE 16" MINIMUM ABOVE ADJACENT ROOF LEVEL. SEE F/A125 AND MECHANICAL DRAWINGS.			
<b>(19)</b>	REMOVE EXISTING ATTIC VENT. INSTALL NEW ATTIC VENTILATOR ON NEW CURB. CURB TO BE 16" MINIMUM ABOVE ADJACENT ROOF LEVEL. SEE F/A125 AND MECHANICAL DRAWINGS.			
20>	REMOVE AND REINSTALL EXISTING OR INSTALL NEW HVAC EQUIPMENT ON NEW CURB. SEE MECHANICAL DRAWINGS. CONNECT TO POWER PER ELECTRICAL DRAWINGS. NEW CURB G/A125. SEE A,E,F,H/A126 AND B,C/A127 FOR REFRIGERANT PIPING, COVERS, ELECTRICAL AND SUPPORTS.			
21>	REMOVE EXISTING AND INSTALL NEW HVAC DUCT WORK AND SUPPORTS. SEE MECHANICAL DRAWINGS.		NUMBER: 3512007(	0101
22	REINSTALL, PROTECT IN PLACE, OR INSTALL NEW ELECTRICAL CONDUITS, WIRING, AND FITTINGS. SEE ELECTRICAL DRAWINGS.	DATE:	AR 2024	
23	ROOF ELEVATION CHANGE. SEE E/A125.	PROPERT	Y NUMBER: 351	
		DRAWN B		CHECKED: BGG
		PHC	ERIO	RAPHS
		SHEET:	A2	03



PHOTO: SOUTH SIDE

19/A204



PHOTO: CULTURAL CENTER WEST SIDE

21/A204



PHOTO: SCUPPER AND METAL CAPS

23/A204



PHOTO: SOUTH SIDE, WEST END

20/A204



PHOTO: ELECTRICAL BOX

22/A204



PHOTO: PARAPET CAPS

	KEYED EXTERIOR PHOTOGRAPH NOTES			2
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		DRAWN E		CHECKED: BGG
		PHC	ERIO	RAPHS
		SHEET:	A2(	04

### STRUCTURAL NOTES :

- A. GENERAL
- 1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL
- GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS 2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
- 3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE
- ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. 4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
- 5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
- 6. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
- 7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
- 8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION. 9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE
- WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS. 10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT
- NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS. 11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE
- PLANS OR DETAILS FOR DIMENSIONAL INFORMATION. 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALI STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL
- SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER. 13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
- 14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
- 15. WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

### B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- 1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S011, S012.
- 2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
- 3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
- 4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION
- 5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L".
- C. BASIS OF DESIGN
- 1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2021, ASCE 41-17 RISK CATEGORY : III
- 2. ROOF LOADS
- a. FLAT-ROOF SNOW LOAD, Pf: 33 PSF GROUND SNOW LOAD, Pa: 43 PSF
- 2. SNOW EXPOSURE FACTOR, Ce: 1.0
- 3. SNOW LOAD IMPORTANCE FACTOR, Is: 1.1
- 4. THERMAL FACTOR, Ct: 1.0 5. SLOPE FACTOR, C<sub>s</sub> : 1.0
- 6. SNOW DRIFT : SHOWN ON PLANS WHERE APPLICABLE.
- b. LIVE LOAD = 20 PSF
- c. DEAD LOAD = 25 PSF 3. WIND DESIGN
- a. BASIC WIND SPEED (3 SECOND GUST): 110 MPH
- b. ALLOWABLE STRESS DESIGN WIND SPEED, VASD : 85 MPH
- WIND EXPOSURE : C d. INTERNAL PRESSURE COEFFICIENT, G<sub>CPI</sub>: +/- 0.18
- e. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-16. 4. SEISMIC DESIGN a. SEISMIC IMPORTANCE FACTOR, IE: 1.25
- D. SITE CLASS : D-DEFAULT
- MAPPED SPECTRAL RESPONSE ACCELERATIONS (BSE-1E 20% IN 50 YEAR):  $S_S = 0.290$ ,  $S_1 = 0.093$ d. MAPPED SPECTRAL RESPONSE ACCELERATIONS (BSE-2E - 5% IN 50 YEAR): S<sub>S</sub> = 0.735 , S<sub>1</sub> = 0.237 e. SPECTRAL RESPONSE COEFFICIENTS (BSE-1E - 20% IN 50 YEAR): Sxs = 0.455, Sx1 = 0.223
- SPECTRAL RESPONSE COEFFICIENTS (BSE-2E 5% IN 50 YEAR): Sxs = 0.891, Sx1 = 0.504 g. ANALYSIS PROCEDURE : LINEAR STATIC PROCEDURE (LSP) PER ASCE 41-17

### D. CONCRETE

- 1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE REQUIREMENTS LISTED BELOW a. RETAINING WALLS (EXPOSURE CATEGORY F2) I. 28 DAY COMPRESSIVE STRENGTH : 4500 PSI
  - MAXIMUM W/C RATIO : 3. MAXIMUM AGGREGATE SIZE :
  - 4. AIR CONTENT
- 2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602. PLACEMENT.
- OF 12" OF CONCRETE ABOVE THE OPENING, TYP.
- GRADE.
- APPLIED TO THE JOINT PRIOR TO PLACING NEW CONCRETE.

### E. ANCHOR BOLTS/EMBEDDED BOLTS

- WITH THE FOLLOWING

- BOI TS
- PLACING CONCRETE AND/OR GROUT.
- F. ADHESIVE/MECHANICAL ANCHORS
- ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN
- APPROVAL OF THE ENGINEER. ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN
- INTENT.
- MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). REACHED DESIGN STRENGTH
- 6. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL HOLES.
- 7. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.
- 8. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE
- INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS. a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-A (ESR-3187). SIMPSON SET-3G (ESR-4057), OR AT-XP (ER-0263).
- DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER) 10. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO MASONRY SHALL BE: a. HILTI HIT-HY 270 (ESR-4143). b. SIMPSON SET-XP (ER-0265), OR AT-XP (ER-0281).
- DEWALT AC100+ GOLD (ESR-3200). a. HILTI KWIK BOLT TZ (ESR-1917).
- b. SIMPSON STRONG-BOLT 2 (ESR-3037) 12. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO MASONRY SHALL BE: a. HILTI KWIK HUS-EZ (ESR-3056). SIMPSON STRONG BOLT 2 WEDGE ANCHOR (ER-0240).
- c. DEWALT SCREWBOLT+ (ESR-4042). 13. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE: a. SIMPSON TITEN HD (ESR-2713).
- b. DEWALT SCREWBOLT+ (ESR-3889) c. HILTI KWIK HUS-EZ (ESR-3027). 14. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO MASONRY SHALL BE: a. SIMPSON TITEN HD (ESR-1056).
- b. DEWALT SCREWBOLT+ (ESR-1678). HILTI KWIK HUS EZ (ESR-3056). 15. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOLID GROUTED.
- 16. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS RECORD OR THE SPECIAL INSPECTOR.
- LOCATION
- MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

0.45

SEE SCHEDULE BELOW

3. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE

 REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36"O.C. MAXIMUM SPACING. UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" AND SMALLER THAN 24" IN ANY DIRECTION ADD (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM

6. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON

7. WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED. WHERE NOTED IN SPECIFIC DETAILS. HARDENED CONCRETE SHALL BE ROUGHENED TO 1/4" AMPLITUDE AND A BONDING AGENT SHALL BE

1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY

a. AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 105 HEADED BOLTS.(ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.) b. AT WOOD STUD WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TIMBER NOTES FOR MORE INFORMATION. c. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.) 2. EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE HEADED

3. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC. 4. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO

5. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT. 6. WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS. 2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR

3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN

4. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL

5. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS

BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP

CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION

SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR

SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL

9. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:

11. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:

SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF

17. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW

18. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES,

- G. REINFORCING STEEL
- 1. REINFORCING BAR STRENGTH REQUIREMENTS:
- a. ALL REINFORCING BARS EXCEPT AS INDICATED IN NOTE b, SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
- 2. HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044. 3. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820
- AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100. 4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF
- THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD. 5. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY
- DETAILED OTHERWISE OR APPROVED BY THE ENGINEER. 6. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
- 7. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3" b. EXPOSED TO EARTH OR WEATHER :
- 1. #6 & LARGER ..... 2"
- 2. #5 & SMALLER .....1-1/2" c. NOT EXPOSED TO WEATHER OR EARTH :
- 1. SLABS, WALLS, JOISTS, #11 & SMALLER ..... 3/4" BEAMS, COLUMNS: MAIN REINFORCING OR TIES ..... 1-1/2"
- d. SLAB ON GRADE :
- 1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE 8. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT
- POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE. 9. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED
- AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS. 10. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.
- 11. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
- 12. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
- 13. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

H. STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
- a. ANSI/AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
- b. AISC 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
- c. AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" d. AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- e. AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC). ANSI/AISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
- AWS D1.8, "STRUCTURAL WELDING CODE SEISMIC".
- 2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
- a. WIDE FLANGE SHAPES AND WT SHAPES ASTM A992 b. OTHER SHAPES AND PLATES - ASTM A-36 (UNO)
- c. HOLLOW STRUCTURAL SECTIONS (HSS) ASTM A-500, GRADE C FOR SQUARE, RECTANGULAR AND ROUND SHAPES (FY = 50 KSI FOR SQUARE AND RECTANGULAR SHAPES AND 46 KSI FOR ROUND SHAPES)
- d. DEFORMED BAR ANCHORS (DBA) ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1 e. HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE "B". USE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE.
- THREADED ROD ASTM A-449. g. NON-SHRINK GROUT - ASTM C110. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC,
- WITH A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI. 3. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
- 4. ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC. 5. WELDING
- a. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D1.1 (LATEST EDITION).
- b. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL DECKS. c. ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED
- TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN, USE THE FOLLOWING: 1. WHERE THE THICKNESS OF THE CONNECTED PARTS IS EQUAL TO OR THICKER THAN 1/4", WELD
- SIZE SHALL BE 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART. 2. WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD SIZE SHALL BE THE SAME AS THE THICKNESS OF THE THINNEST PART.
- WELDING OF HSA'S (HEADED STUD ANCHORS) AND DBA'S (DEFORMED BAR ANCHORS) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND AWS D1.1 REINFORCING BARS SHALL NOT BE SUBSTITUTED FOR HSA'S OR DBA'S.
- e. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
- f. SPECIAL PROVISIONS FOR SFRS (SEISMIC FORCE RESISTING SYSTEM): ALL WELDS DESIGNATED AS DEMAND CRITICAL WELDS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSES 6.1, 6.2, AND 6.3 OF AWS D1.8.
- 2. ALL OTHER WELDS THAT ARE PART OF THE SFRS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.1 OF AWS D1.8. 3. BUTT WELDS IN MEMBERS WITH DIFFERENT THICKNESSES, SUCH AS COLUMN SPLICES, SHALL
- BE TAPERED AND MADE IN SUCH A MANNER THAT THE TRANSITION DOES NOT EXCEED 1 IN 2-1/2 INCHES. THE TRANSITION SHALL BE ACCOMPLISHED BY CHAMFERING THE THICKER PART, TAPERING THE WIDER PART, SLOPING THE WELD METAL OR BY A COMBINATION OF THESE
- 6. BOLTING a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM F3125 GR. A325.
- b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL PLIES OF THE JOINT IN FIRM CONTACT.
- c. WHERE OVERSIZED OR SLOTTED HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE HOLE
- d. BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE. e. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN
- AND STEEL SPECIFIED. 7. PROVIDE FULL DEPTH WEB STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND. FLANGE WIDTH STIFFENER THICKNESS WELD THICKNESS
- < 8 1/4" 3/16" 1/4" 8 1/4" < BF < 12 1/2" 3/8" 12 1/2" < BF < 18" 1/2" 8. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT
- APPLIED INSULATION, FIREPROOFING, ETC, AS NOTED IN THE PROJECT SPECIFICATIONS. 9. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE
- CONSIDERED RESTRAINED 10. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE
- NATURAL CROWN UP. 11. UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

- J. TIMBER
- 1. WOOD GRADES (UNLESS NOTED OTHERWISE)
- a. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS: HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.
- VERTICAL MEMBERS: POST & TRIMMERS: NO. 2, STUDS: NO. 2.
- b. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS GRADES TO TYPICAL FRAMING MEMBERS.
- c. GLU-LAMINATED BEAMS SHALL BE DOUGLAS-FIR INDUSTRIAL APPEARANCE GRADE WITH A COMBINATION NUMBER 24F-V4 EXCEPT CANTILEVERED AND CONTINUOUS BEAMS SHALL BE COMBINATION NUMBER 24F-V8.
- d. UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES : MODULUS OF ELASTICITY FLEXURAL STRESS RATING 2 600 PSI
- 2,000,000 PSI LVL : PSL : 2,000,000 PSI
- 1,500,000 PSI 1SI
- 2.250 PSI e. ALL WOOD "I" JOISTS AND BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL

2.900 PSI

2. SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE INDEX

LOCATION	THICKNESS	PANEL I
WALLS :	15/32"	24/0
FLOORS :	23/32"	48/2
ROOFS :	19/32"	32/1

3. INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO. 4. ALL 23/32" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE.

- 5. CONNECTIONS, FASTENERS, AND ADHESIVE
- a. ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS. b. UNLESS NOTED OTHERWISE, 10d COMMON (0.148) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD FLOOR AND ROOF SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS
- FOLLOWS 1. BOUNDARY NAILING "BN": 4"O.C. AT ALL BEARING WALLS, SHEAR WALLS, BLOCKING, AND WHERE OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
- 2. PANEL EDGE NAILING "EN": 6"O.C. AT ALL OTHER PLYWOOD PANEL EDGES.
- 3. PANEL FIELD NAILING "FN": 12"O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL. c. UNLESS NOTED OTHERWISE, 8d COMMON (0.131) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD SHEAR WALL SHEATHING TO STUDS AND BLOCKING AS FOLLOWS:
- 1. PANEL EDGE NAILING "EN": 6"O.C. 2. PANEL FIELD NAILING "FN": 12"O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL d. NAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE
- HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING e. UNLESS NOTED OTHERWISE, ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES COMMON SHANK HEAD LENGTH MIN. PENETRATION NAIL SIZE DIAMETER DIAMETER INTO SUPPORT MEMBER

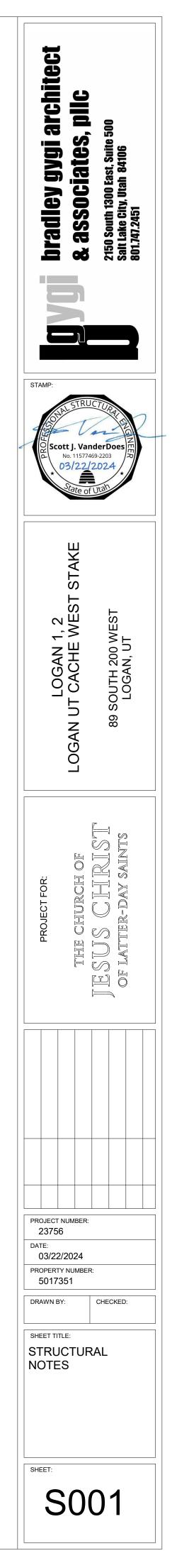
6d	0.113"	0.266"	2″	1.25″
8d	0.131"	0.281"	2-1/2"	1.375"
10d	0.148"	0.312"	3"	1.50"
12d	0.148"	0.312"	3-1/4"	1.50"
16d	0.162"	0.344"	3-1/2"	1.62"
A CONTINUOUS	S READ OF PERI	MANENT BOND		ADHESIVE C

- f. A CONTINUOUS BEAD OF PERMANENT BOND TIMBER/WOOD ADHESIVE COMPOUND SHALL BE USED TO FASTEN ALL PLYWOOD FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.
- g. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA, UNLESS NOTED OTHERWISE
- h. UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR FOOTINGS WITH 3/4" DIAMETER ANCHOR BOLTS AT 32"O.C. WITH 8" MINIMUM EMBEDMENT. THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END OF EACH PIECE. WALL BOTTOM PLATES AT SHEAR WALLS SHALL INCLUDE 1/4" x 3" x 3" STEEL PLATE WASHERS
- BETWEEN THE SILL PLATE AND NUT OF THE ANCHOR BOLT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1⁄2" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE. FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-
- RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL TREATED LUMBER AND BORATE BASED TREATMENTS) SHALL BE OF G-185 HOT-DIP GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER. k. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD
- MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.1. CONNECTIONS FOR MULTIPLE PIECES OF ENGINEERED LUMBER PIECES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 6. UNLESS NOTED OTHERWISE, ALL ROOF SHEATHING AND WALL SHEATHING AT SHEAR WALLS SHALL HAVE SOLID BLOCKING AT ALL PANEL EDGES.
- 7. PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SOLID BLOCKING UNDER PERPENDICULAR NONBEARING WALLS.
- 8. PROVIDE SOLID 2" (NOMINAL) FULL DEPTH BLOCKING AT ENDS AND SUPPORT LOCATIONS FOR ALL JOISTS AND RAFTERS. BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A35 FRAMING ANCHOR BETWEEN JOISTS UNLESS NOTED OTHERWISE. 9. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE INSTALLED WITH THE
- NATURAL CROWN UP.

### K. EXISTING BUILDING NOTES

- 1. ARW ENGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ANY PORTION OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THESE DRAWINGS. 2. DRAWINGS AND DETAILS HAVE BEEN PREPARED TO REFLECT THE EXISTING CONDITIONS AND
- CONFIGURATIONS OF STRUCTURAL ELEMENTS. HOWEVER, THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND ALERTING THE ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE BUILDING AND ELEMENTS WITHIN THE BUILDING REMAIN STABLE UNTIL CONSTRUCTION IS COMPLETE. AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHORING OR OTHER TEMPORARY SUPPORT OF STRUCTURAL MEMBERS UNTIL THE FINAL CONFIGURATION HAS BEEN COMPLETED.

	Structural Sheet Index							
SHEET								
NUMBER	SHEET NAME							
S001	STRUCTURAL NOTES							
S011	SCHEDULES							
S012	SCHEDULES							
S104	LOW ROOF FRAMING PLAN							
S105	MID ROOF FRAMING PLAN							
S106	ROOF FRAMING PLAN							
S201	DETAILS							
S202	DETAILS							
S203	DETAILS							
S204	DETAILS							



			SPECIAL INSPEC	TION S	SCHEDULE <sup>1, 2</sup>
		E	STABLISHED PER 2021 IBC	SECTIO	N 110 AND CHAPTER 17
ITEM	CONTINUOUS <sup>3</sup>	<sup>3</sup> PERIODIC <sup>3</sup>	REFERENCE		COMMENTS
CONCRETE CONSTRUCTION (IBC 1705.3)			SEE IBC TABLE 1705.3 - REF. NOTE C1	C 1.	SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS,
REINFORCING STEEL PLACEMENT		•		C 2.	FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL
WELDING OF REINFORCING STEEL	•	•	REFERENCE NOTE C2	02.	AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE
ANCHORS CAST IN CONCRETE	•				SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
VERIFYING REQUIRED DESIGN MIX		•		C 3.	PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST.
CONCRETE PLACEMENT / SAMPLING	•		REFERENCE NOTE C3	C 4.	PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
CURING TEMPERATURE / TECHNIQUES		•	1	C 5.	EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT. AND/OR
CONCRETE AND SHOTCRETE PLACEMENT / APPLICATION TECHNIQUES	•			C 6.	ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT AND ACI 318: 17.8.2.4. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT
PRESTRESSED CONCRETE			+		JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.
APPLICATION OF PRESTRESSING FORCES	•			C 7.	PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM
GROUTING BONDED TENDONS				C 8.	CONNECTIONS FOR COMPLIANCE WITH ACI 550.5. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FORMWORK SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING
ERECTION OF PRECAST MEMBERS		•		• • • •	FORMED.
PRECAST CONCRETE DIAPHRAGM CONNECTIONS		-	REFERENCE NOTE C6 AND C7		
INSTALLATION OF THE EMBEDED PARTS					
CONTINUITY OF REINFORCEMENT ACROSS JOINTS	<u>↓</u> -	+	-		
CONNECTION COMPLETION IN THE FIELD					
VERIFICATION OF IN-SITU STRENGTH		•	REFERENCE NOTE C4		
POST-INSTALLED ANCHOR PLACEMENT	•	•	REFERENCE NOTE C5		
FORMWORK		•	REFERENCE NOTE C8		
WOOD (IBC 1705.5 & 1705.12.1 & 1705.13.2)	+	-		W 1.	WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSPECTED TO ASCERTAIN THAT GRADE AND THICKNESS ARE IN COMPLIANCE
HIGH LOAD DIAPHRAGMS (ROOF / FLOOR)		•	REFERENCE NOTE W1	VV 1.	WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE
SITE-BUILT ASSEMBLIES		-			DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FOR COMPLIANCE WITH APPROVED BUILDING PLANS.
SHEAR WALL & DIAPHRAGM NAILING			REFERENCE NOTE W2	W 2.	SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING,
DRAG STRUTS		•			BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM, WHERE THE LATERAL RESISTANCE IS PROVIDED BY STRUCTURAL SHEATHING AND THE SPECIFIED FASTENER SPACING AT PANEL EDGES IS
BRACES & SHEAR PANELS					MORE THAN 4"o.c.
HOLDOWNS				W 3.	SPECIAL INSPECTION SHALL BE PERFORMED TO VERIFY THAT THE INSTALLATION OF TEMPORARY AND PERMANENT RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.
GLUING OPERATIONS	•				
METAL-PLATE-CONNECTED WOOD TRUSSES WITH		•	REFERENCE NOTE W2		
HEIGHTS GREATER THAN OR EQUAL TO 60"		-			
METAL-PLATE-CONNECTED WOOD TRUSSES WITH SPANS GREATER THAN OR EQUAL TO 60 FEET		•	REFERENCE NOTE W3		
SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATION	TIONS, AND THE SPEC	ECIFIC GENERAL NO IMENTS SHALL IMME	OTES SECTIONS. THE TESTING AGENCY SHALL S IEDIATELY BE BROUGHT TO THE ATTENTION OF T	FIED SPECIAL INS SEND COPIES OF THE CONTRACTO	SPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL F ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIA OR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIA

ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)

	LEGEND OF	SYMBO	LS AND ABE	BREVIATIONS	ect
	IOR BOLT		•	FOOTING MARK	
ABV = ABOV ARCH = ARCH	ITECT		•		
BLW = BELO BN = BOUN	W IDARY NAILING		$(\bullet)$	SECTION MARK	archi 500 bilc
BS = BOUN	IDARY SCREW	~-	•		
	LING RESTRAINED BRA LING RESTRAINED BRA		$\overline{\bullet}$		<b>Vgi al</b> <b>ites, p</b> tatio6
	PLETE JOINT PENETRAT ERLINE	ION		COLUMN PIER ELEVATION	
	CRETE MASONRY UNIT		•		
CONC = CONC	CRETE		•	—— MIN. LENGTH OF SHEAR WALL	<b>Adley</b> <b>assoc</b> South 1300 Lake City, Ut 147.2451
	CRETE PIER		SS	— FOOTING STEP	<b>Tadle</b> <b>asso</b> 0 South 130 147.2451
DIA / Ø = DIAMI DBA = DEFO	ETER DRMED BAR ANCHOR			— MASONRY WALL	
DBE = DECK	<b>EXAMPLE AND A REARING ELEVATION</b>				
	ATION E NAILING			— DEPRESS FDN./WALL AND POUR	
	E OF DECK IDATION			FLOOR SLAB OVER AT MASONRY FOUNDATION WALL	
FTG = FOOT	ING			DEPRESS FDN./WALL AND POUR	
GB = CONC	HED FLOOR ELEVATION CRETE GRADE BEAM	i		FLOOR SLAB OVER AT CONCRETE	
	ED STUD ANCHOR BEARING ELEVATION			FOUNDATION WALL	
KB = KICKE	ER BRACE			— MASONRY BEAM	
MAX = MAXII MB = MASC	MUM DNRY BEAM			CONCRETE BEAM	
	ONRY COLUMN HANICAL		"Ř		STAMP:
MEZZ = MEZZ	ANINE			HD - SIMPSON HOLDOWN SIZE POST - SIZE OF END POST	SHAL STRUCTURY
MIN = MINIM MJ = MASC	IUM DNRY JAMB		HD ST	CONNECTED TO HOLDOWN	1 Vn
	ONRY WALL SIDE, FAR SIDE		× Č	"A" - PLAN CONFIGURATION AT HOLDOWN AT FOUNDATION	Scott J. VanderDoes
	PPROVED EQUAL				a No. 11577469-2203 03/22/2024
PAF = POWI	DER ACTUATED FASTE	NER	٣١	- FRAMING ANGLE SEE TYPICAL DETAIL	X Starting *
PL = PLATI REINF = REINF	E FORCING		L		tore of Utal
REQ'D = REQU SIM = SIMIL	JIRED		C	<ul> <li>FRAMING CHANNEL SEE TYPICAL DETAIL</li> </ul>	
SSH = STEE	L STUD HEADER		$\frown$	ITEMS, DETAILS, & SYSTEMS WHICH	
	L STUD JAMB L STUD SILL		(L)	ARE PART OF THE LATERAL FORCE	∐ IJ
SSW = STEE	L STUD WALL DF BEAM ELEVATION		$\smile$	RESISTING SYSTEM.	STAKE
TOC = TOP (	OF CONCRETE SLAB		-	BRACED FRAME	II SI
	OF FOOTING OF GIRDER ELEVATION			_ MOMENT RESISTING CONNECTIONS -	L LS L
ГОМ = ТОР (	OF MASONRY OF STEEL ELEVATION			SEE DETAIL	2 2 (E0
TYP = TYPIC	CAL		$ \longrightarrow  $	_ MOMENT RESISTING CANTILEVER CONNECTIONS - SEE DETAIL	
JNO = UNLE	SS NOTED OTHERWISE		KB		
				- KICKER BRACE	-OGAN CACHE UTH 200 V
				DLUMN SIZE	LOGAN 1, 2 JT CACHE WES SOUTH 200 WEST LOGAN, UT
			Ŭ Pl	ER MARK (PIER ELEV.)	
				]	AN L 89
					-OGAN
	COI	- 51 KAP LA	P SPLICE SCHE		
		LAP SPLICE			
ITEM #	MIN. # FASTENER PER SPLICE			COMMENTS	
		STACKED	SIDE-BY-SIDE		
CMST 12	25-16d	22"	33"		
· · <b>-</b>	30-10d	27"	39"		SAINT SAINT SAINT
CMST 14	18-16d	16"	26"		II X F S
	21-10d 13-16d	19" 11"	30" 20"		PROJECT FOR: CHURCH S C [H] ] TER-DAY S
CMSTC 16	13-16d 15-10d	11	20		
	26-10d		15"		
CS 14	30-8d		16"		
00.40	20-10d		11"		
CS 16			13"		H Ö
	22-8d				
	16-10d		9"		
CS 18	16-10d 18-8d		11"		
	16-10d 18-8d 12-10d		11" 6"		
CS 18	16-10d 18-8d 12-10d 14-8d		11" 6" 9"		
CS 18	16-10d 18-8d 12-10d 14-8d 10-10d		11" 6" 9" 7"		
CS 18 CS 20 CS 22	16-10d 18-8d 12-10d 14-8d	  	11" 6" 9"		
CS 18 CS 20 CS 22 CS 22 NOTES: 1. NO STRAP 2. SPLICE MU 3. ALL NAIL SI 4. 10d COMMO 5. IF WOOD S REQUIRED 6. ALL STRAP 7. TWO OPTIO a. LAP ON b. INSTAL SOLID F	16-10d 18-8d 12-10d 14-8d 10-10d 12-8d MODIFICATION IS ALLO ST MEET BOTH THE MII IZES LISTED ARE COMM ON MAY BE REPLACED INMBER OF NAILS. IS TO BE INSTALLED UN ONS EXIST FOR COIL ST IE STRAP STACKED ON L STRAPS SIDE BY SIDE PIECE.	    WED. NIMUM NUMBER ( 10N NAILS. BY 16d SINKERS. E EVERY OTHER N DER SHEATHING RAP LAPPING. TOP OF THE OTH	11"         6"         9"         7"         6"         0F FASTENERS AND T         NO OTHER NAIL SUBS         NAIL HOLE AND LENGT         .         HER STRAP.	HE MINIMUM SPLICE LENGTH. TITUTION IS ALLOWED FOR LAP SPLICES. THEN SPLICE TO ACCOMMODATE THE BE USED. THE BLOCK MUST BE ON	
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CS 18 CS 20 CS 22 NOTES: 1. NO STRAP 2. SPLICE MU 3. ALL NAIL SI 4. 10d COMMO 5. IF WOOD S REQUIRED 6. ALL STRAP 7. TWO OPTIO a. LAP ON b. INSTAL SOLID F 8. STRAP TO RC ST 8. STRAP TO	16-10d         18-8d         12-10d         14-8d         10-10d         12-8d         MODIFICATION IS ALLO         ST MEET BOTH THE MINUZES LISTED ARE COMMON MAY BE REPLACED         PLITTING OCCURS, USE         NUMBER OF NAILS.         'S TO BE INSTALLED UN         DNS EXIST FOR COIL ST         IE STRAP STACKED ON         L STRAPS SIDE BY SIDE         PIECE.         BE INSTALLED TIGHT.         DOF SHEATHING - SEE         RUCT. NOTES         IO x REQ'D BLOCKING         TWEEN TRUSS TOP	   WED. NIMUM NUMBER O ION NAILS. BY 16d SINKERS. E EVERY OTHER N DER SHEATHING RAP LAPPING. TOP OF THE OTHE - TO DO THIS A I	11"         6"         9"         7"         6"         OF FASTENERS AND T         NO OTHER NAIL SUBS         NAIL HOLE AND LENGT         HER STRAP.         LARGER BLOCK MUST	TITUTION IS ALLOWED FOR LAP SPLICES. HEN SPLICE TO ACCOMMODATE THE BE USED. THE BLOCK MUST BE ON	23756           DATE:           03/22/2024           PROPERTY NUMBER:           5017351           DRAWN BY:           CHECKED:           SHEET TITLE:
CS 18 CS 20 CS 22 NOTES: 1. NO STRAP 2. SPLICE MU 3. ALL NAIL SI 4. 10d COMMO 5. IF WOOD S REQUIRED 6. ALL STRAP 7. TWO OPTIO a. LAP ON b. INSTAL SOLID F 8. STRAP TO RC ST 8. STRAP TO	16-10d         18-8d         12-10d         14-8d         10-10d         12-8d         MODIFICATION IS ALLO         ST MEET BOTH THE MINUTES LISTED ARE COMMON MAY BE REPLACED INPLITTING OCCURS, USE         NUMBER OF NAILS.         'S TO BE INSTALLED UNDONS EXIST FOR COIL STREE STRAP STACKED ON         L STRAPS SIDE BY SIDE         PIECE.         BE INSTALLED TIGHT.         DOF SHEATHING - SEE         RUCT. NOTES         2         10 x REQ'D BLOCKING         TWEEN TRUSS TOP         ORDS	   WED. NIMUM NUMBER O ION NAILS. BY 16d SINKERS. E EVERY OTHER N DER SHEATHING RAP LAPPING. TOP OF THE OTHE - TO DO THIS A I	11"         6"         9"         7"         6"         OF FASTENERS AND T         NO OTHER NAIL SUBS         NAIL HOLE AND LENGT         HER STRAP.         LARGER BLOCK MUST	TITUTION IS ALLOWED FOR LAP SPLICES. HEN SPLICE TO ACCOMMODATE THE BE USED. THE BLOCK MUST BE ON	23756           DATE:           03/22/2024           PROPERTY NUMBER:           5017351           DRAWN BY:           CHECKED:           SHEET TITLE:
CS 18 CS 20 CS 22 NOTES: 1. NO STRAP 2. SPLICE MU 3. ALL NAIL SI 4. 10d COMMO 5. IF WOOD S REQUIRED 6. ALL STRAP 7. TWO OPTIO a. LAP ON b. INSTAL SOLID F 8. STRAP TO 8. STRAP TO RC ST 8. STRAP TO BE CH	16-10d         18-8d         12-10d         14-8d         10-10d         12-8d         MODIFICATION IS ALLO         ST MEET BOTH THE MINUZES LISTED ARE COMMON MAY BE REPLACED         PLITTING OCCURS, USE         NUMBER OF NAILS.         'S TO BE INSTALLED UNDONS EXIST FOR COIL ST         IS STO BE INSTALLED UNDONS EXIST FOR COIL ST         IS STRAP STACKED ON         L STRAPS SIDE BY SIDE         PIECE.         BE INSTALLED TIGHT.         DOF SHEATHING - SEE         RUCT. NOTES         VOOF SHEATHING - SEE         RUCT. NOTES         VUNDARY NAILING         VUNDARY NAILING         VWOOD SHEATHING -	   WED. NIMUM NUMBER O ION NAILS. BY 16d SINKERS. E EVERY OTHER N DER SHEATHING RAP LAPPING. TOP OF THE OTHE - TO DO THIS A I	11"         6"         9"         7"         6"         OF FASTENERS AND T         NO OTHER NAIL SUBS         NAIL HOLE AND LENGT         HER STRAP.         ARGER BLOCK MUST         BOUNE         SIMPS         OF FASTENERS AND T	TITUTION IS ALLOWED FOR LAP SPLICES. HEN SPLICE TO ACCOMMODATE THE BE USED. THE BLOCK MUST BE ON OARY NAILING ON STRAPS - SEE PLAN	23756           DATE:           03/22/2024           PROPERTY NUMBER:           5017351           DRAWN BY:           CHECKED:           SHEET TITLE:
CS 18 CS 20 CS 22 NOTES: 1. NO STRAP 2. SPLICE MU 3. ALL NAIL SI 4. 10d COMMO 5. IF WOOD S REQUIRED 6. ALL STRAP 7. TWO OPTIO a. LAP ON b. INSTAL SOLID F 8. STRAP TO RC ST BE CH BC	16-10d         18-8d         12-10d         14-8d         10-10d         12-8d         MODIFICATION IS ALLO         ST MEET BOTH THE MINUZES LISTED ARE COMMON MAY BE REPLACED         PLITTING OCCURS, USE         NUMBER OF NAILS.         'S TO BE INSTALLED UNDONS EXIST FOR COIL ST         DOS EXIST FOR COIL ST         IE STRAP STACKED ON         L STRAPS SIDE BY SIDE         PIECE.         BE INSTALLED TIGHT.         DOF SHEATHING - SEE         RUCT. NOTES         V         10 x REQ'D BLOCKING         TWEEN TRUSS TOP         OUNDARY NAILING	   WED. NIMUM NUMBER O ION NAILS. BY 16d SINKERS. E EVERY OTHER N DER SHEATHING RAP LAPPING. TOP OF THE OTHE - TO DO THIS A I	11"         6"         9"         7"         6"         OF FASTENERS AND T         NO OTHER NAIL SUBS         NAIL HOLE AND LENGT         HER STRAP.         ARGER BLOCK MUST         BOUNE         SIMPS         OF FASTENERS AND T	TITUTION IS ALLOWED FOR LAP SPLICES. HEN SPLICE TO ACCOMMODATE THE BE USED. THE BLOCK MUST BE ON	23756         DATE:         03/22/2024         PROPERTY NUMBER:         5017351         DRAWN BY:         CHECKED:         SHEET TITLE:         SCHEDULES

PLYWOOD SHEATHING -SEE STRUCT. NOTES SIMPSON STRAP - SEE PLAN -----

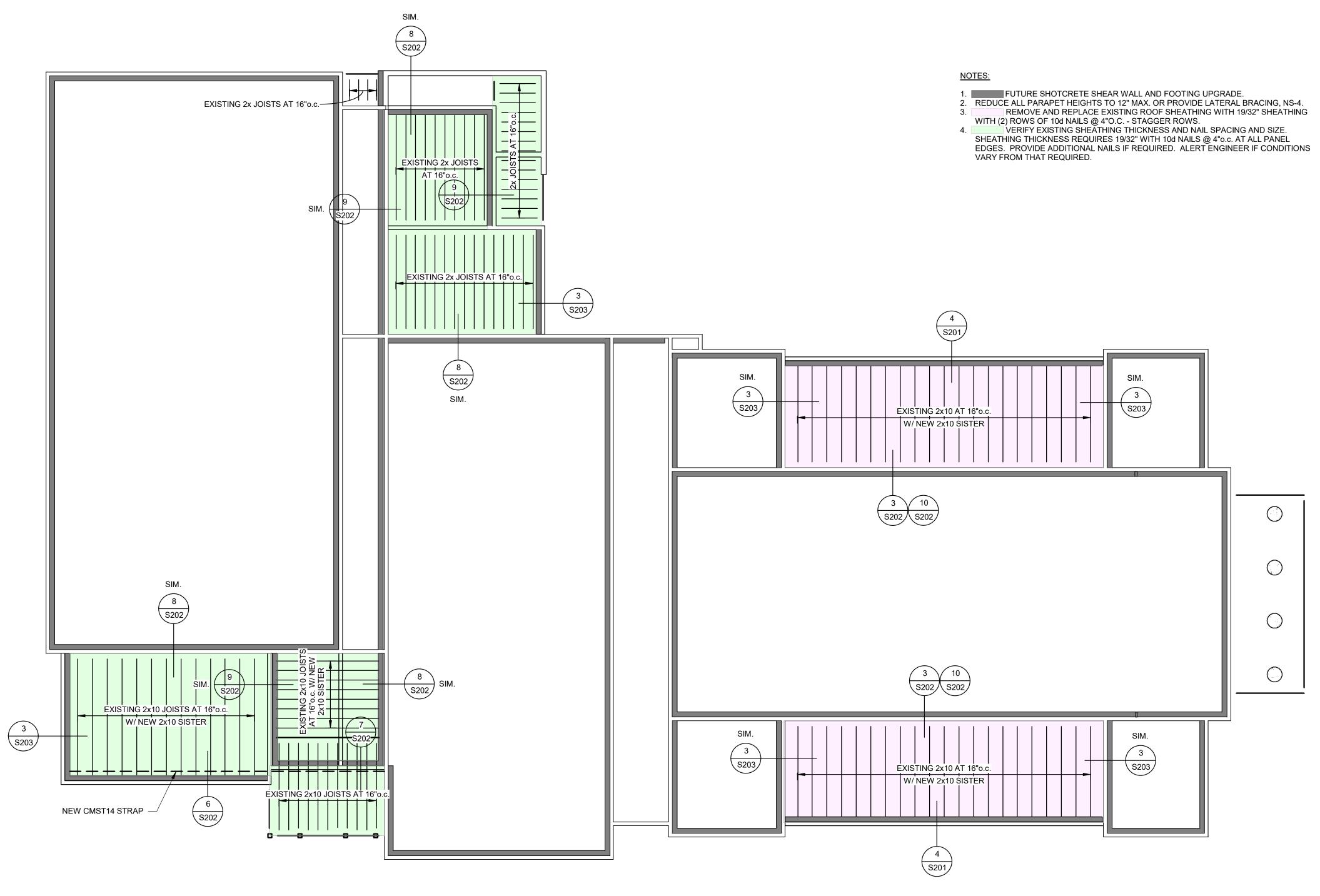
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SPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	FABRICA QUALITY CO	ONTROL	SPECIAL INSPECTOR QUALITY ASSURANCE	NOTES	ED PER 2021 IBC SECTION 1705.2.1 INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	CONTINUOUS PERIODIC CONTINUOUS PERIODIC	NOTES
LDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	CONTINUOUS	6 PERIODIC	CONTINUOUS PERIODIC		MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		
LDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	•		•		FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE
NUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLI	E •		•	1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT		<ul> <li>INSPECTIONS.</li> <li>2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED</li> </ul>
TERIAL IDENTIFICATION (TYPE / GRADE)		•	•	OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.	LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICA
LDER IDENTIFICATION SYSTEM <sup>1</sup>		•	•	<ol> <li>CONTINUOUS - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.</li> </ol>	PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL	• •	AND ERECTOR.
-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION		4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS N REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ),
* JOINT PREPARATION	_			AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN	AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	• •	APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OF
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)				REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ),	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL		ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (N SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIB
* CLEANLINESS (CONDITION OF STEEL SURFACES)		•		APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT)	OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN
* TACKING (TACK WELD QUALITY AND LOCATION)				SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER		ACCORDANCE WITH SECTION N7. 5. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION
* BACKING TYPE AND FIT (IF APPLICABLE)				FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N6.	COMPONENTS		TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 A
-UP OF CJP GROOVE WELDS OFHSS T-, Y-, AND K-JOINTS				5. QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-16 CHAPTER N4.	INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)	CONTINUOUS PERIODIC CONTINUOUS PERIODIC	NOT APPLICABLE. THE QCI AND QAI NEED NOT BE PRESENT
THOUT BACKING (INCLUDING JOINT GEOMETRY)				6. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN	FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE		<ul> <li>DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JC</li> <li>6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHE</li> </ul>
* JOINT PREPARATIONS				ACCORDANCE WITH AISC 360-16 CHAPTER N4.3. 7. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY	POSITIONED AS REQUIRED	•	INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICAT
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)				WITH AISC 360-16 CHAPTER N5.5a AND b.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING		METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT
* CLEANLINESS (CONDITION OF STEEL SURFACES)	_			8. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY	OPERATION		METHOD, MONITORING OF BOLT PRETENSIONING PROCEDUR SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI N
* TACKING (TACK WELD QUALITY AND LOCATION)				METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	• • •	NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS
NFIGURATION AND FINISH OF ACCESS HOLES		•	•	DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION,		<ul> <li>WHEN THESE METHODS ARE USED BY THE INSTALLER.</li> <li>7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHE</li> </ul>
-UP OF FILLET WELDS	_			D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY.	PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE		INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	_	•		9. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED	EDGES		TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORI OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIF
* CLEANLINESS (CONDITION OF STEEL SURFACES)				BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS	INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)	CONTINUOUS PERIODIC CONTINUOUS PERIODIC	IN TABLE N5.6-2. THE QCI AND QAI SHALL BE ENGAGED IN THE
* TACKING (TACK WELD QUALITY AND LOCATION)				EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		FASTENERS WHEN THESE METHODS ARE USED BY THE INSTA
ECK WELDING EQUIPMENT		•		BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION. 10. WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS			8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIM/ METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDU
HE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTE			HO HAS WELDED A	REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED			AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE
INT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE L				BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS			CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND PROVISIONS OF THE RCSC SPECIFICATION.
NSPECTION TASKS DURING WELDING (TABLE N5.4-2)	CONTINUOUS	6 PERIODIC	CONTINUOUS PERIODIC	PROHIBITED. 11. REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT			
NTROL AND HANDLING OF WELDING CONSUMABLES				IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR	GENERAL	STEEL SPECIAL INSPECTION NOTE	S :
* PACKAGING		•	●	AND THE AHJ PER AISC 360-16 CHAPTER N5.5e. 12. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE	1. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT		CE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE
* EXPOSURE CONTROL				FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE	INTERRUPTION TO THE WORK OF THE FABRICATOR.		
WELDING OVER CRACKED TACK WELDS		•	•	REJECT RATE, THE NUMBER OF WELDS CONTAINING	<ol> <li>QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECTION</li> <li>WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTER</li> </ol>	ED TO COORDINATE THE INSPECTION FUNCTION BETV	NEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTIONS ARE
VIRONMENTAL CONDITIONS	_			UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE	PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTION		
* WIND SPEED WITHIN LIMITS	_	•	●	WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20	<ul> <li>REQUIRED.</li> <li>4. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPL</li> </ul>		
* PRECIPITATION AND TEMPERATURE				COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. WHEN THE REJECT RATE FOR	CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME T MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONN	TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN (	
PS FOLLOWED	_			THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT	5. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF	OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPO	
* SETTINGS ON WELDING EQUIPMENT	_			LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE	CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND L SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE.	LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, A	AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE,
* TRAVEL SPEED	_			REJECT RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 12	6. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS A		TAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS
* SELECTED WELDING MATERIALS	_	•	●	IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE	BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT I 7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (ND		D IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE
* SHIELDING GAS TYPE / FLOW RATE	_			CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE	AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. N APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AG	IDT OF WELDS COMPLETED IN AN APPROVED FABRIC	ATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN
* PREHEAT APPLIED	_			EFFECTIVE THROAT IS GREATER THÀN Í IN. (25mm), EACH 6 IN.	8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A	CERTIFICATE OF COMPLIANCE TO THE AHJ STATING T	THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)	_			(150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ON WELD.	FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT CONTRACT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN	OMPLETION OF ERECTION, THE APPROVED ERECTOR	R SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING
* PROPER POSITION (F, V, H, OH)				13. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED	9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN	I CONFORMANCE WITH THE CONSTRUCTION DOCUME	ENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF
	-			WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD	THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRI		QUENCE INSPECTIONS. NONCONFORMING MATERIAL AND
* INTERPASS AND FINAL CLEANING	-			WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE	10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFO	ORMANCE, OR MADE SUITABLE FOR ITS INTENDED PU	
* EACH PASS WITHIN PROFILE LIMITATIONS	_			PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE	11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OW (1) NONCONFORMANCE REPORTS		ATUK AND ERECTUK:
* EACH PASS MEETS QUALITY REQUIREMENTS	-			NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION	(2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING I	TEMS.	
ACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	•			<ol> <li>DEMAND CRITICAL WELDS SHALL MEET THE PROVISION FOUND IN AISC 341-16 AND WELDING METHODS, PROCEDURES AND QUALITY</li> </ol>			
NSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	CONTINUOUS		CONTINUOUS PERIODIC	CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWING:			
	_	•	•	<ul> <li>ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WITHIN OR ADJACENT TO THE JOINT, SHALL BE REPAIRED OR</li> </ul>			
E, LENGTH AND LOCATION OF WELDS	•		•	<ul> <li>REMOVED.</li> <li>b. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINED IN</li> </ul>			
LDS MEET VISUAL ACCEPTANCE CRITERIA	-			SECTION 3.5.			
	-			c. UNREPAIRED CRACKS, GOUGES, AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA.			
* WELD / BASE-METAL FUSION	-			d. USE ELECTRODES WITH CHARPY V-NOTCH ABSORBED			
* CRATER CROSS SECTION	•			ENERGY EQUAL TO OR GREATER THAN 20 FT-LBS AT 20 DEGREES FAHRENHEIT UNDER AWS A5 CLASSIFICATION TEST			
* WELD PROFILES	-			METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT USING			
* WELD SIZE * UNDERCUT	-			TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISC 358. ACCEPTABLE ELECTRODES INCLUDE E70TG-K2, E71 T-1.			
* POROSITY	-						
C STRIKES							
REA <sup>1</sup>	• •						
LD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP	•		●				
	<b>_</b>						
CKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	•						
PAIR ACTIVITIES	•						
	•						
		•	●				
PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE		1					
PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE ROVAL OF THE EOR							
ROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE ROVAL OF THE EOR EN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENEI		ERFORMED I	N THE K-AREA,				
ROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE OVAL OF THE EOR	HE WELD)						

## STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

murni bradlev gvgi architect	& associates, pllc	2150 South 1300 East, Suite 500 Salt Lake City, Utah 84106 801 777 2454	
	AL STRUC AL STRUC No. 1157746 03/22/2 State of V	9-2203 70 2024 ×	2
LOGAN 1 2	LOGAN UT CACHE WEST STAKE	89 SOUTH 200 WEST LOGAN, UT	
PROJECT FOR:	THE CHURCH OF	DESUS CHIKUS'I' OF LATTER-DAY SAINTS	
PROPERT 50173 DRAWN B	5 /2024 Y NUMBER: 351 Y:	CHECKED:	
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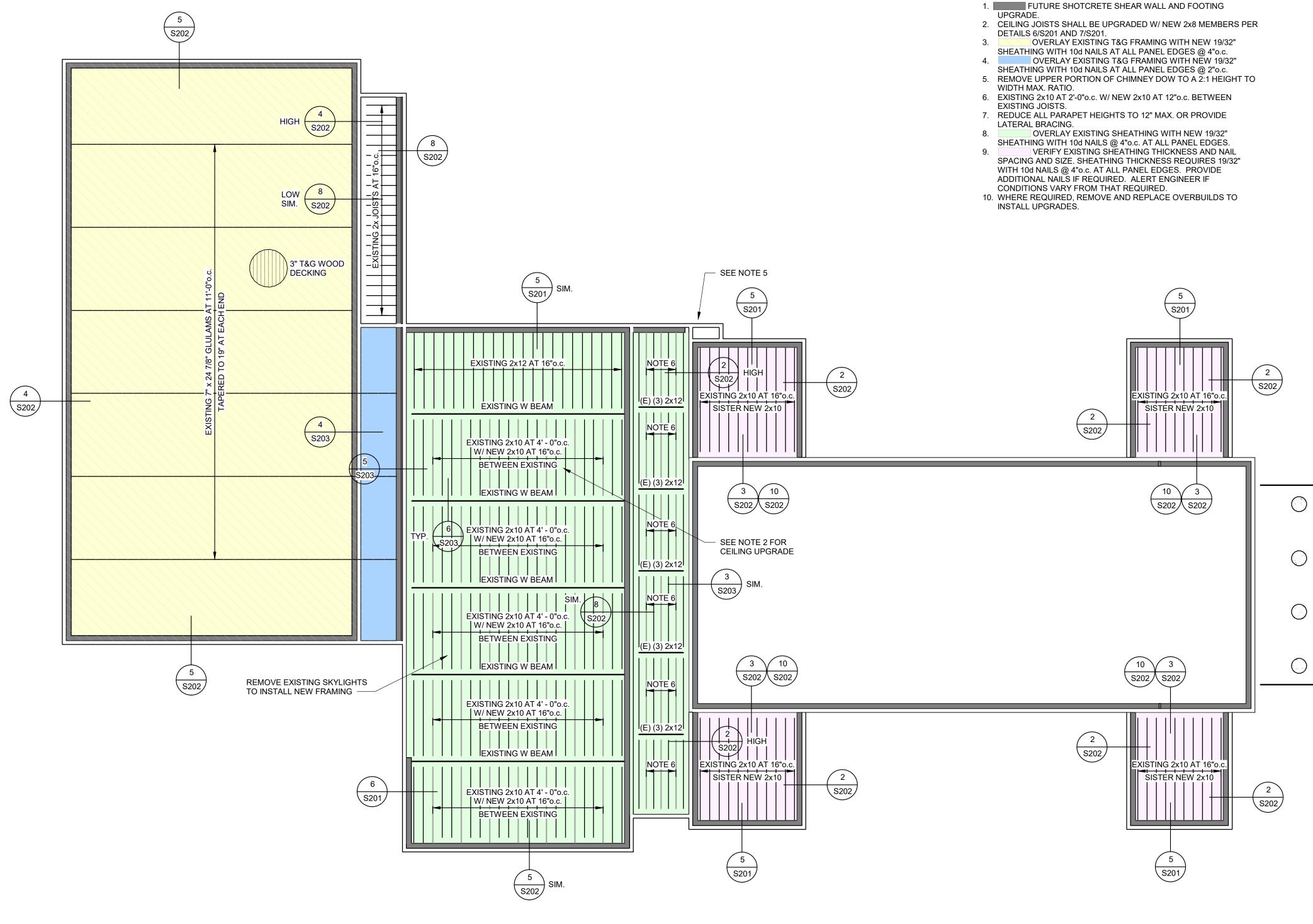


LOW ROOF FRAMING PLAN SCALE : 1/8" = 1'-0"

1 S104

THE SEISMIC UPGRADES CONTAINED IN THESE DRAWINGS ARE MADE WITH THE UNKNOW OF THE DESIGN OF THE FUTURE WALL UPGRADES. WHEN THE BALANCE OF THE SEISMIC UPGRADES ARE DESIGNED THE ADEQUACY OF THE UPGRADES CONTAINED IN THESE DRAWINGS WILL NEED TO BE VERIFIED BASED ON THE NEW DESIGN.

<b>n</b> vrei bradlev avai architect	& associates, plic	2150 South 1300 East, Suite 500 Salt Lake City, Utah 84106 801.747.2451
ä	AL STRUC ott J. Vanc No. 1157746 03/22/2 State of V	9-2203 20 1024 *
	LOGAN UT CACHE WEST STAKE	89 SOUTH 200 WEST LOGAN, UT
PROJECT FOR:	THE CHURCH OF	JESUS CHIKUST. Of latter-day saints
2375 DATE: 03/22 PROPERT 5017 DRAWN B	2/2024 TY NUMBER: 351 TY:	
SHEET:	51(	)4



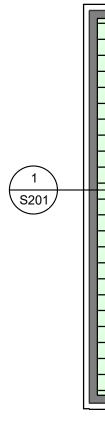
MID ROOF FRAMING PLAN SCALE : 1/8" = 1'-0"

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NOTES:

THE SEISMIC UPGRADES CONTAINED IN THESE DRAWINGS ARE MADE WITH THE UNKNOW OF THE DESIGN OF THE FUTURE WALL UPGRADES. WHEN THE BALANCE OF THE SEISMIC UPGRADES ARE DESIGNED THE ADEQUACY OF THE UPGRADES CONTAINED IN THESE DRAWINGS WILL NEED TO BE VERIFIED BASED ON THE NEW DESIGN.

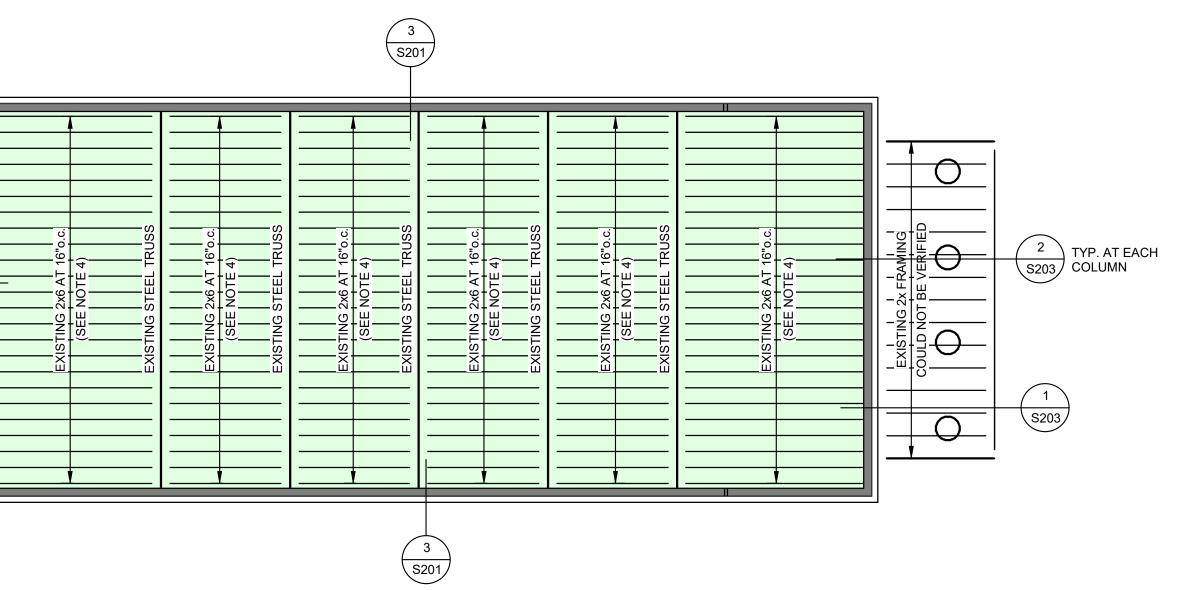
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LOGAN 1, 2 LOGAN UT CACHE WEST STAKE 89 SOUTH 200 WEST LOGAN, UT
THE CHURCH OF JESUS CHIRIST OF LATTER-DAY SAINTS
PROJECT NUMBER:         23756         DATE:         03/22/2024         PROPERTY NUMBER:         5017351         DRAWN BY:         CHECKED:         SHEET TITLE:         MID ROOF FRAMING         PLAN



SCALE : 1/8" = 1'-0"

### NOTES:

- FUTURE SHOTCRETE SHEAR WALL AND FOOTING UPGRADE.
   OVERLAY EXISITING SHEATHING W/ NEW 19/32" SHEATHING W/ 10d NAILS AT 2"o.c. AT ALL BOUNDARY EDGES AND 3"o.c. AT OTHER
- PANEL EDGES. 3. REDUCE ALL PARAPET HEIGHTS TO 12" MAX. OR PROVIDE LATERAL
- BRACING.
  UPGRADE END BAYS 2 X 6 WITH NEW 1-3/4" X 7-1/4" LVL EACH SIDE OF 2 X 6 SEE DETAIL 1/204.
- 5. UPGRADE MIDDLE BAY 2 X 6 WITH NEW 2 X 6 SISTERED JOIST. SEE DETAIL 2/S204.
   6. REMOVE AND REPLACE OVERBUILDS TO INSTAL CONTINUOUS SHEATHING SEE 3/S201.

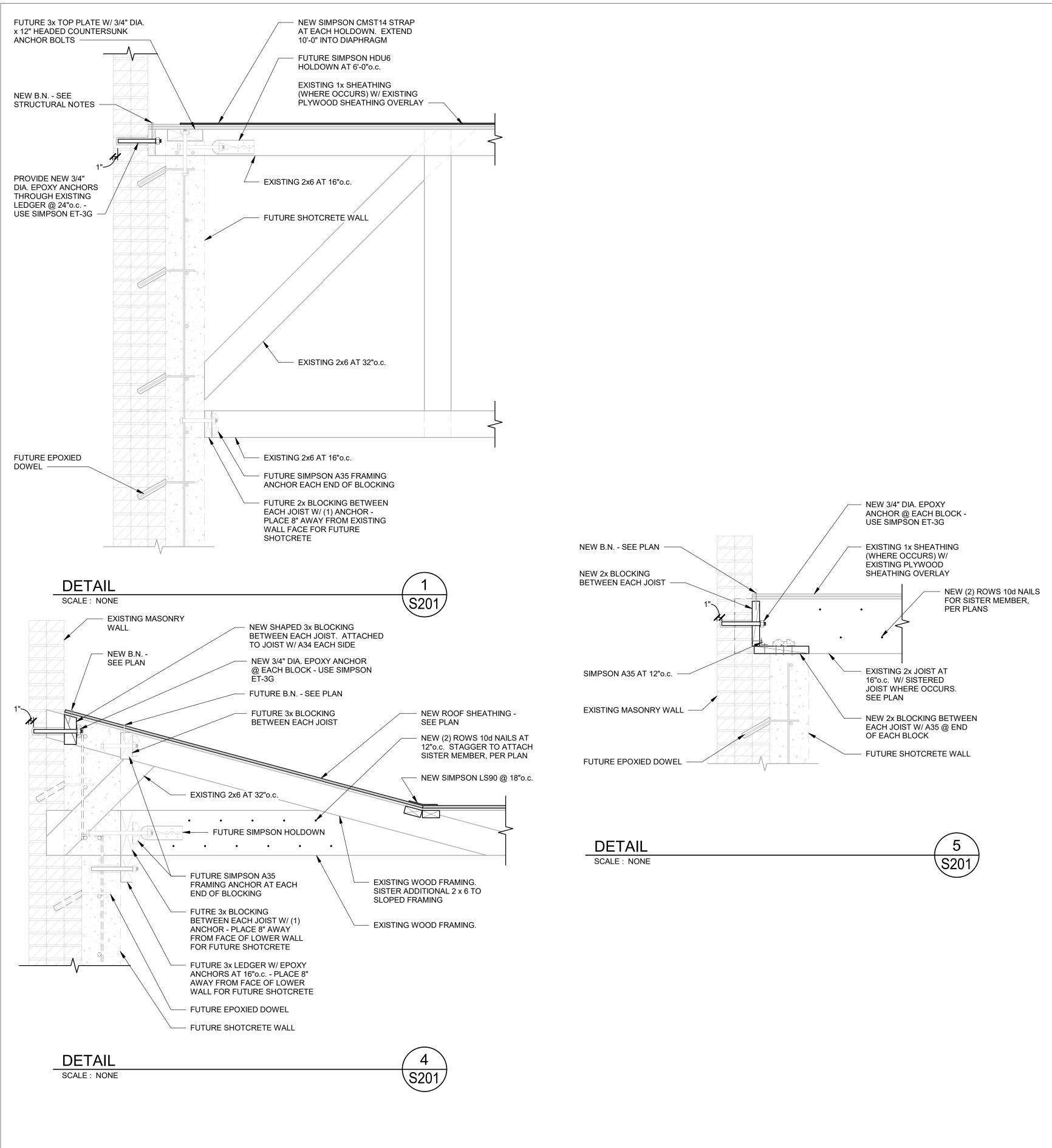


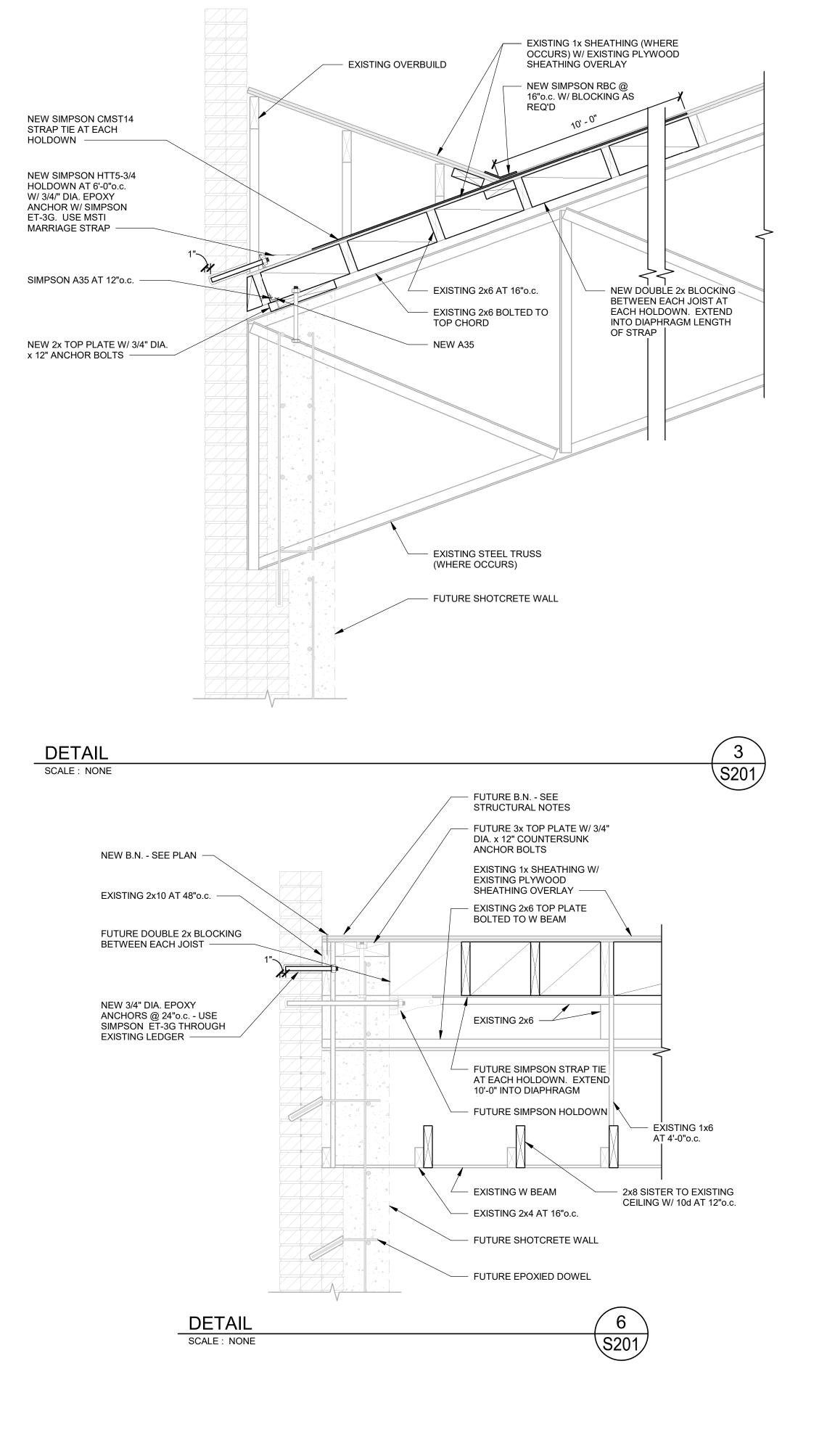
HIGH ROOF FRAMING PLAN

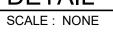


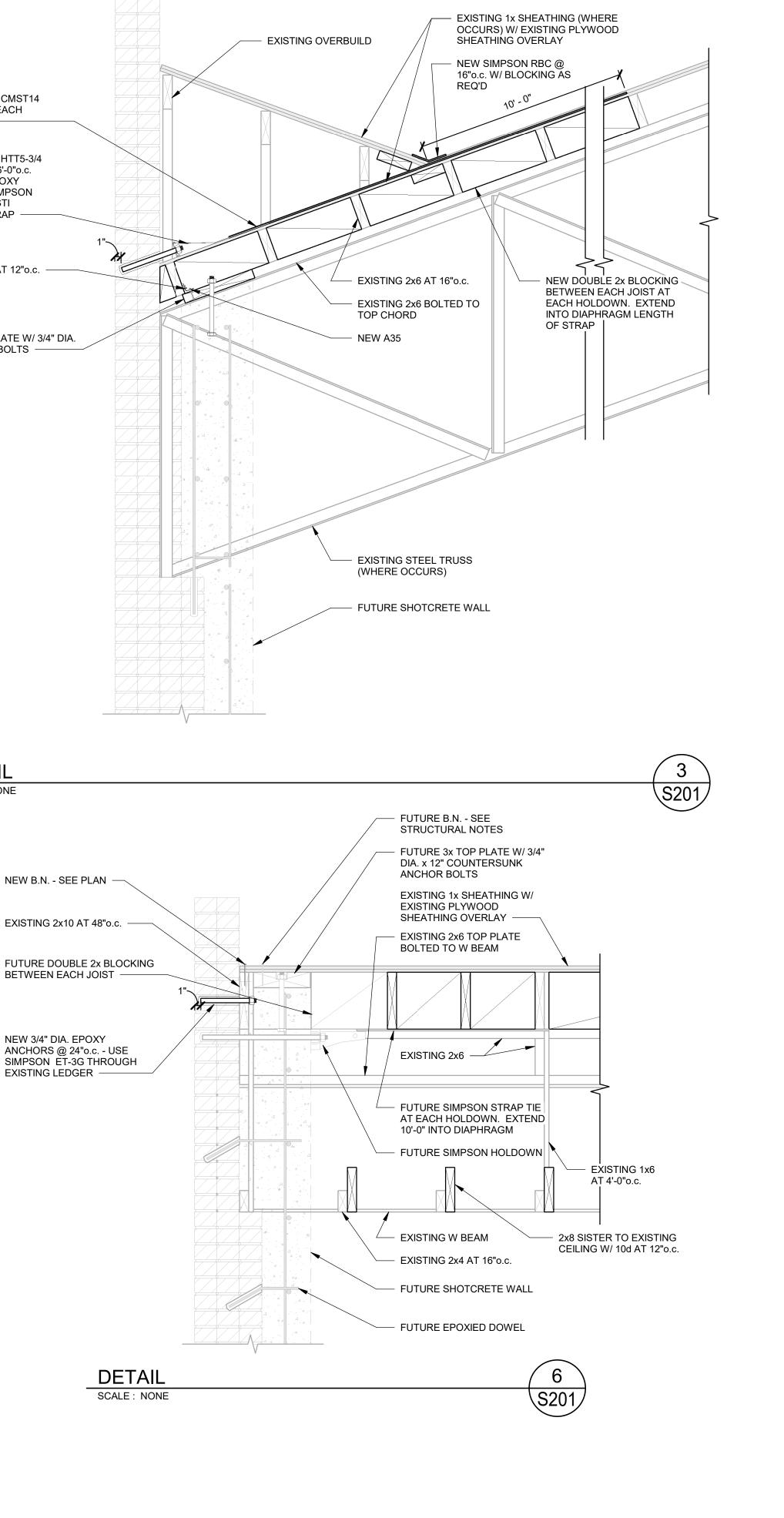
ADATION CONTRACTION CONTRACTICO CONTRACTIC
Scott J. VanderDoes No. 11577469-2203 03/22/2024 * State of Utan
LOGAN 1, 2 LOGAN UT CACHE WEST STAKE 89 SOUTH 200 WEST LOGAN, UT
THE CHURCH OF JESUS CHIRIST OF LATTER-DAY SAINTS
PROJECT NUMBER:           23756           DATE:           03/22/2024           PROPERTY NUMBER:           5017351
DRAWN BY: CHECKED: SHEET TITLE: ROOF FRAMING PLAN SHEET: SHEET: SHEET:

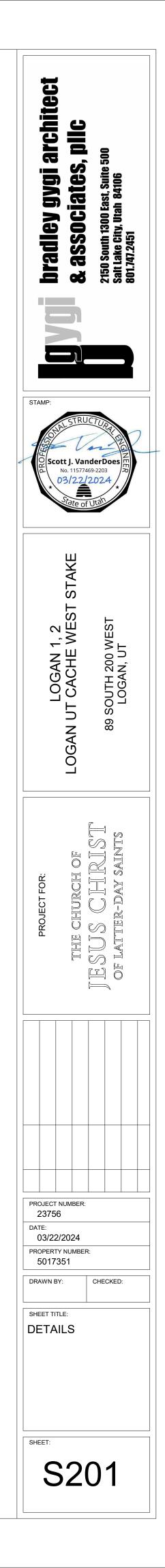
THE SEISMIC UPGRADES CONTAINED IN THESE DRAWINGS ARE MADE WITH THE UNKNOW OF THE DESIGN OF THE FUTURE WALL UPGRADES. WHEN THE BALANCE OF THE SEISMIC UPGRADES ARE DESIGNED THE ADEQUACY OF THE UPGRADES CONTAINED IN THESE DRAWINGS WILL NEED TO BE VERIFIED BASED ON THE NEW DESIGN.





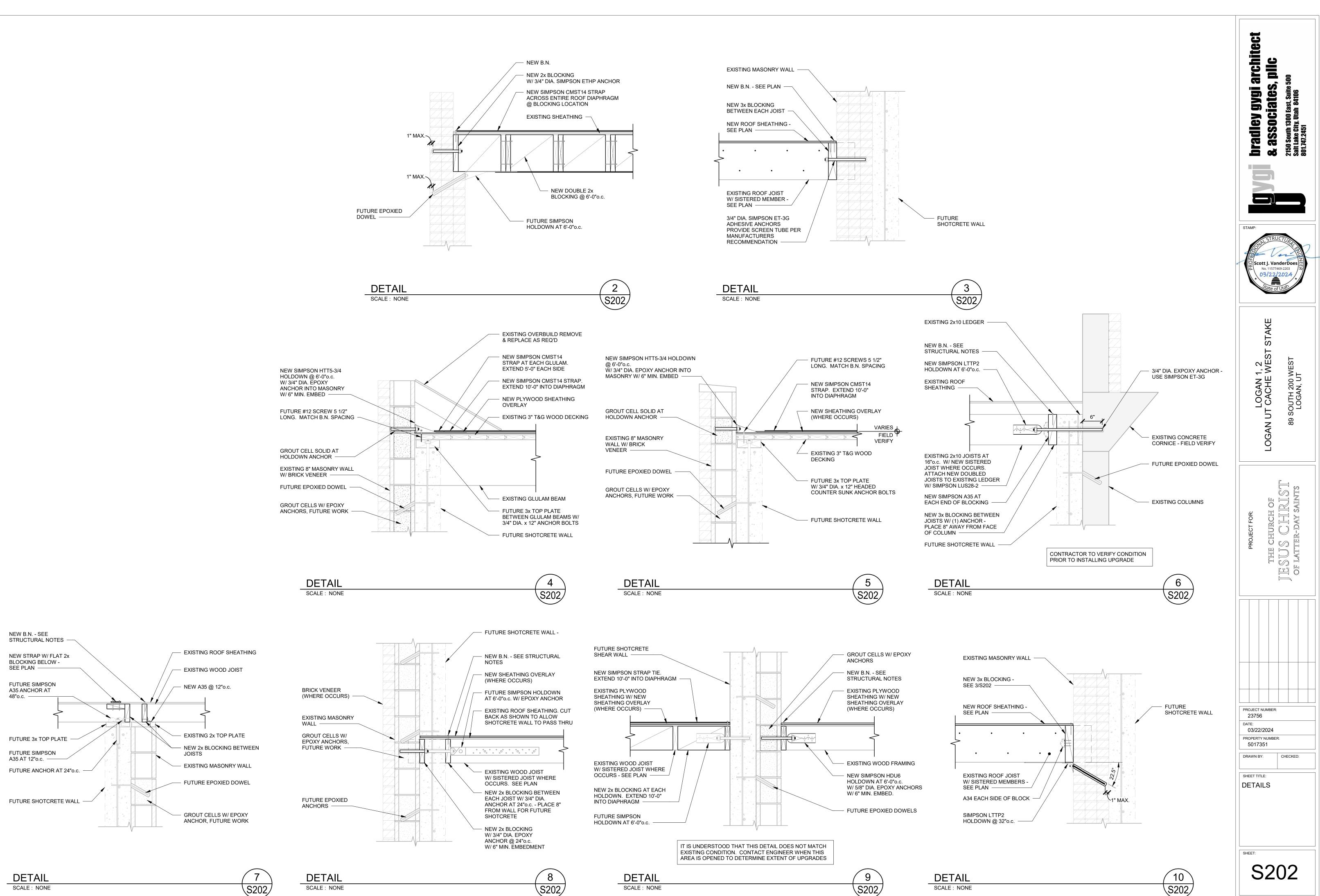


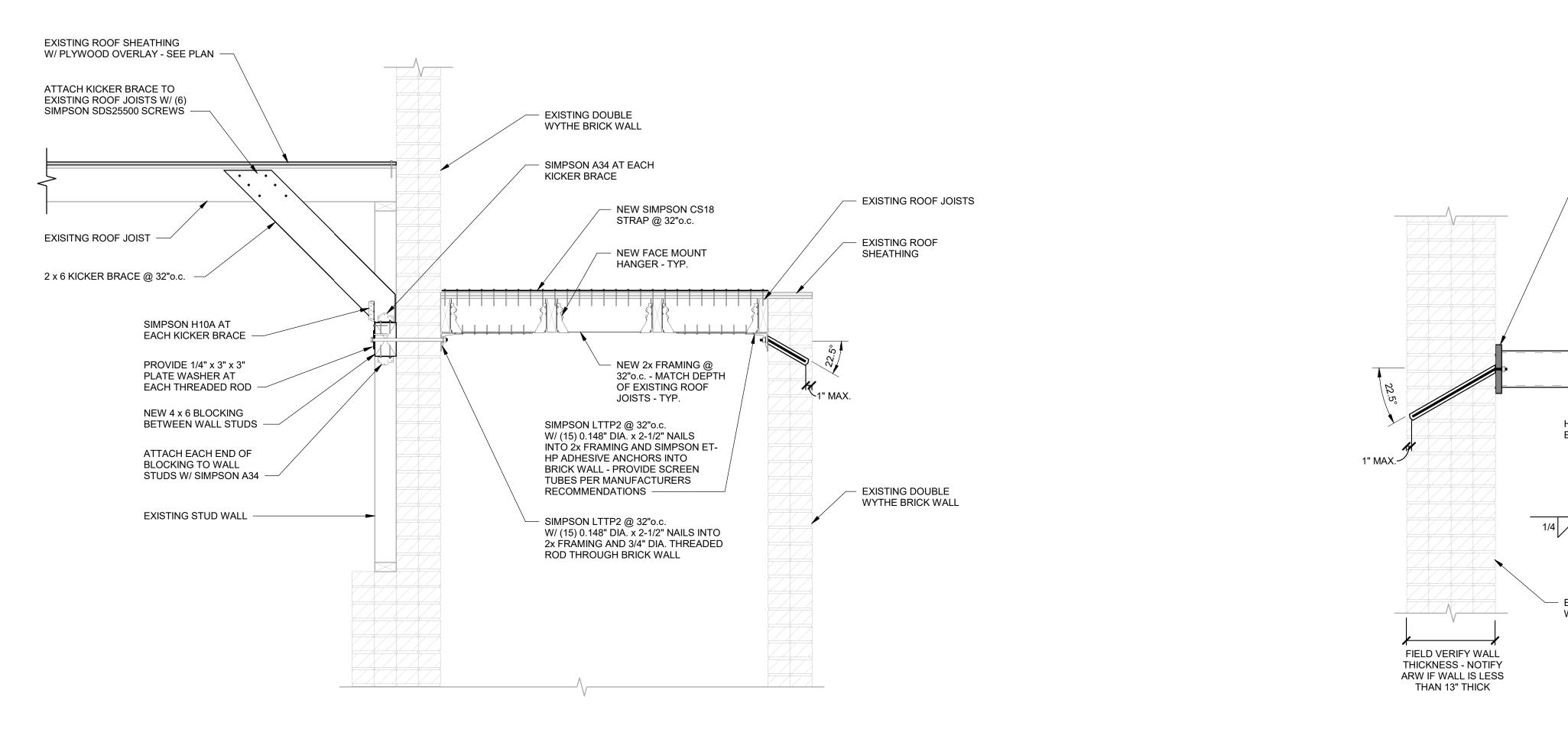




DETAIL

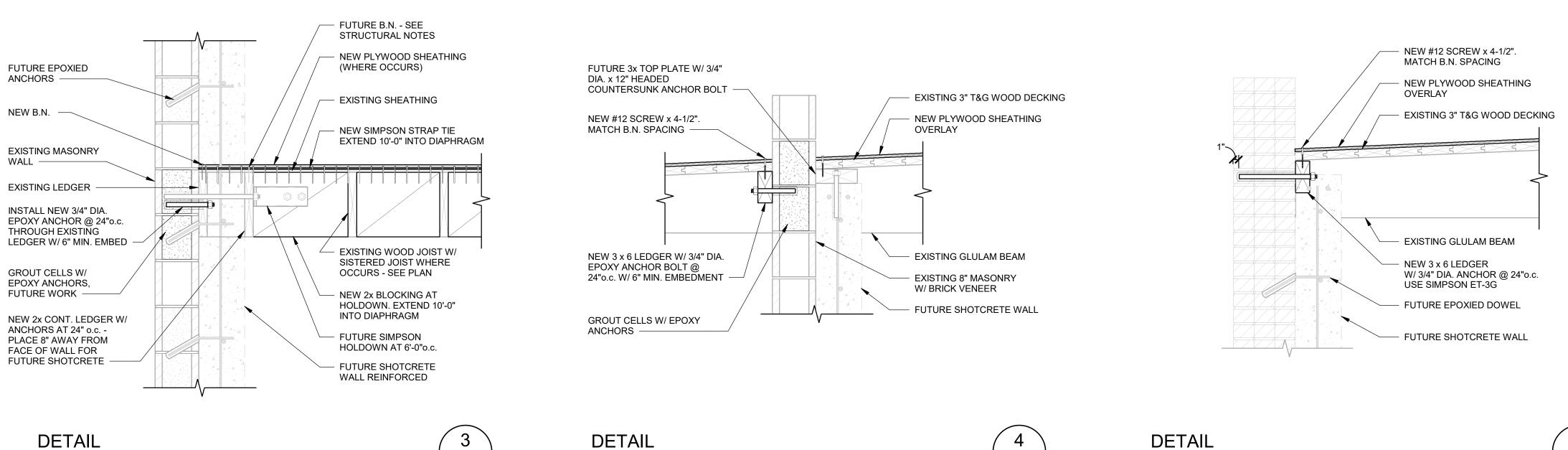
DETAIL SCALE : NONE





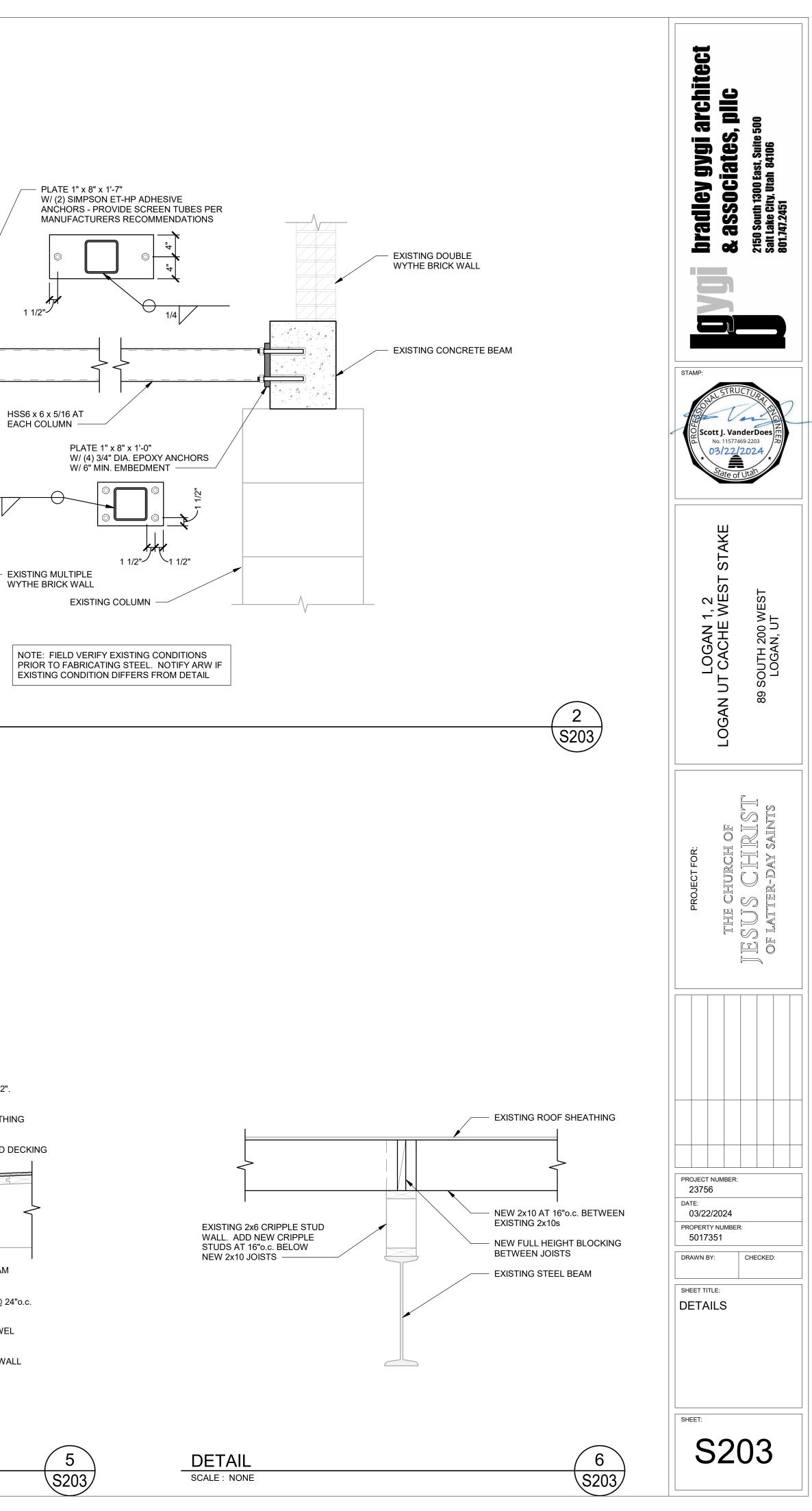
DETAIL SCALE : NONE

SCALE : NONE



S203

SCALE : NONE



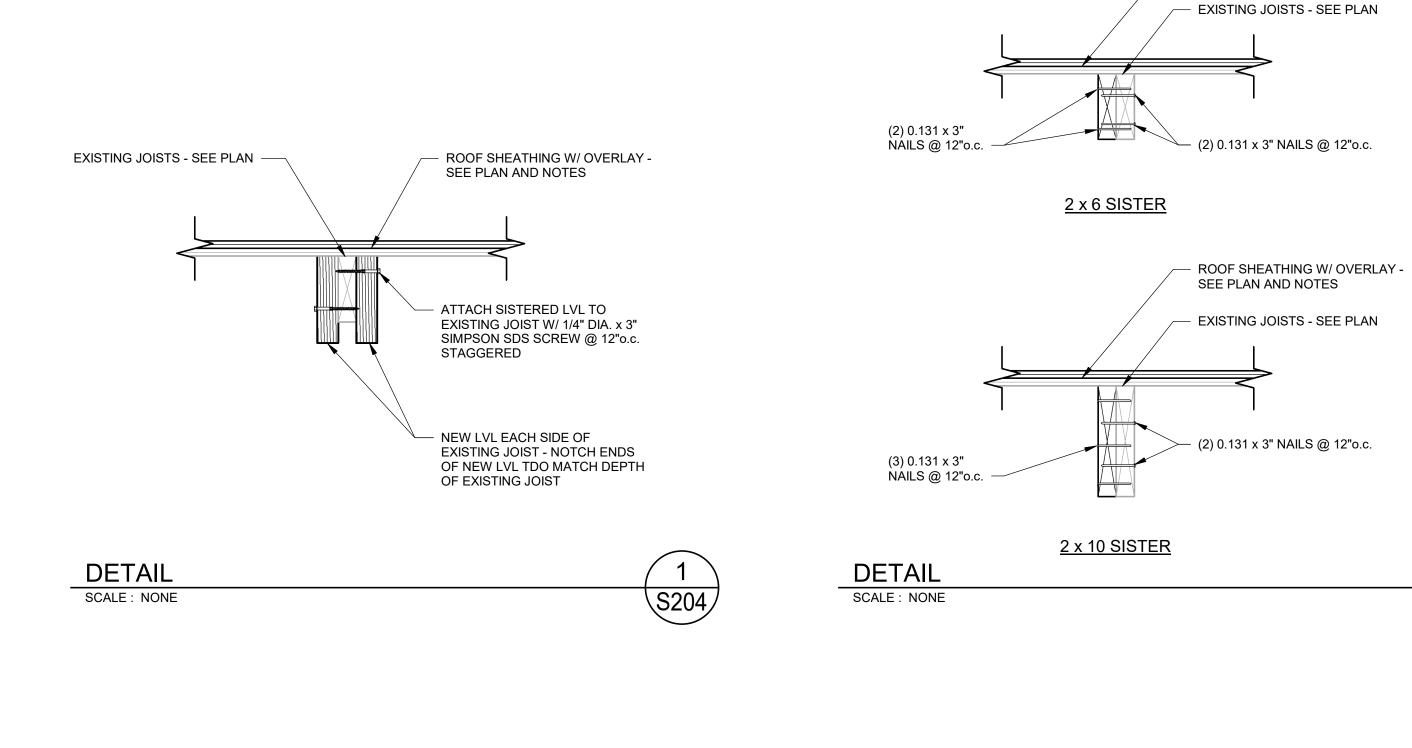




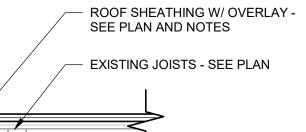




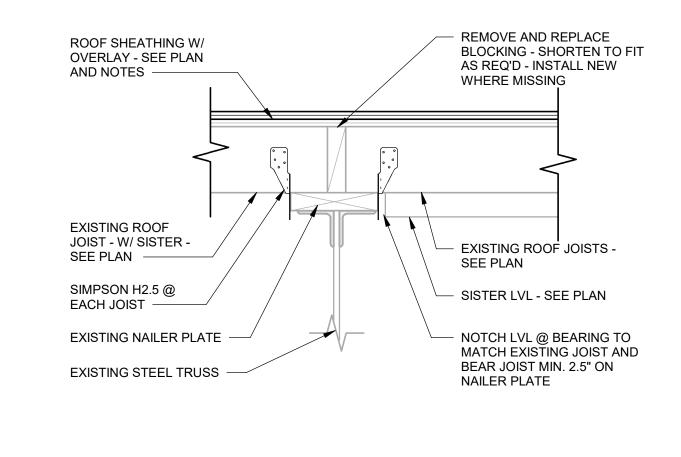


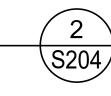




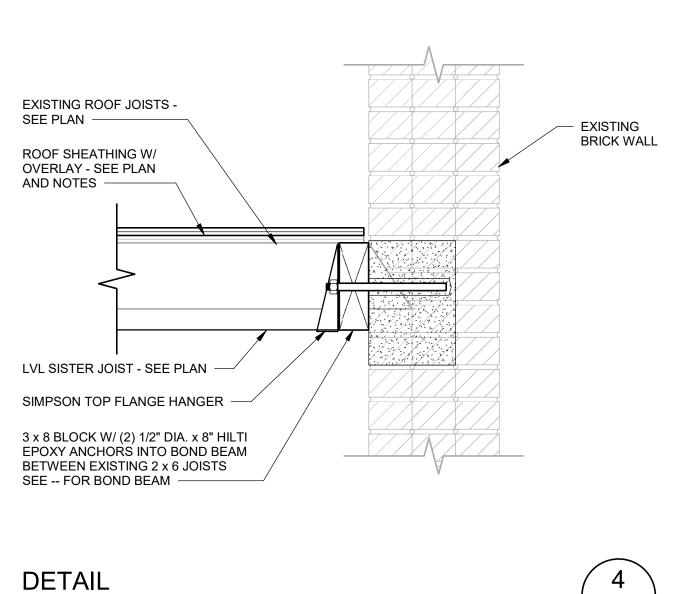


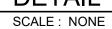
(2) 0.131 x 3" NAILS @ 12"o.c.

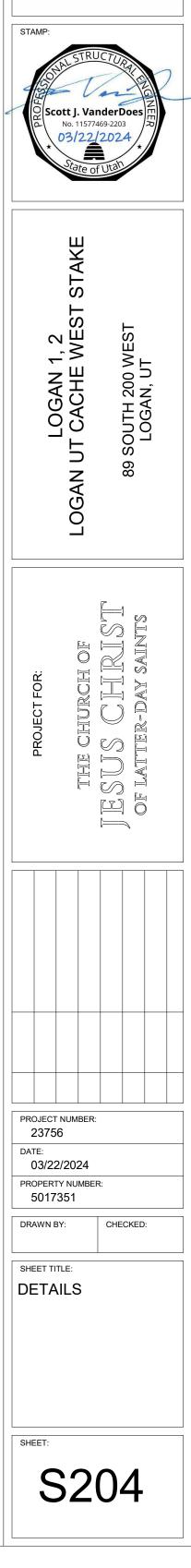






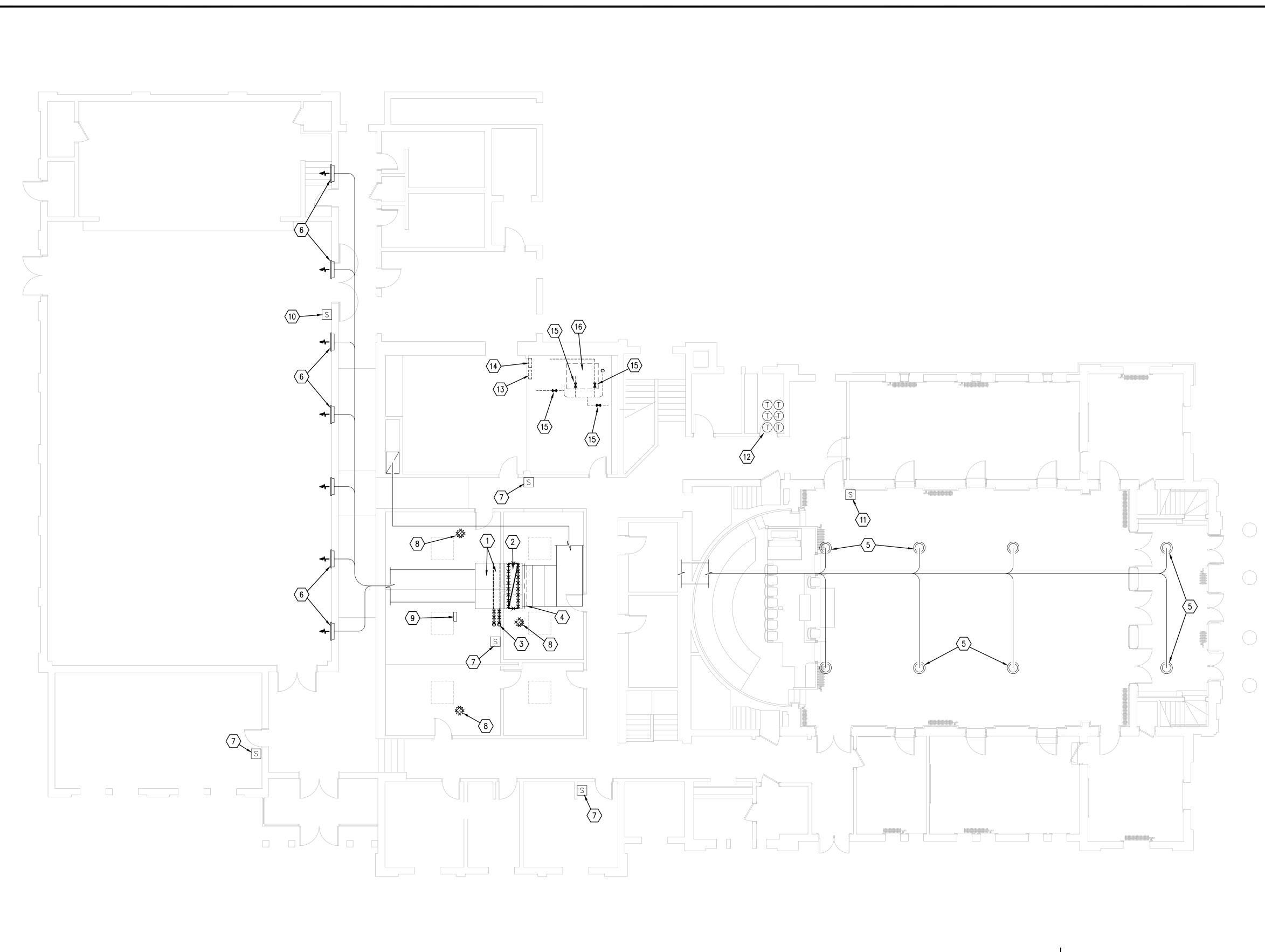






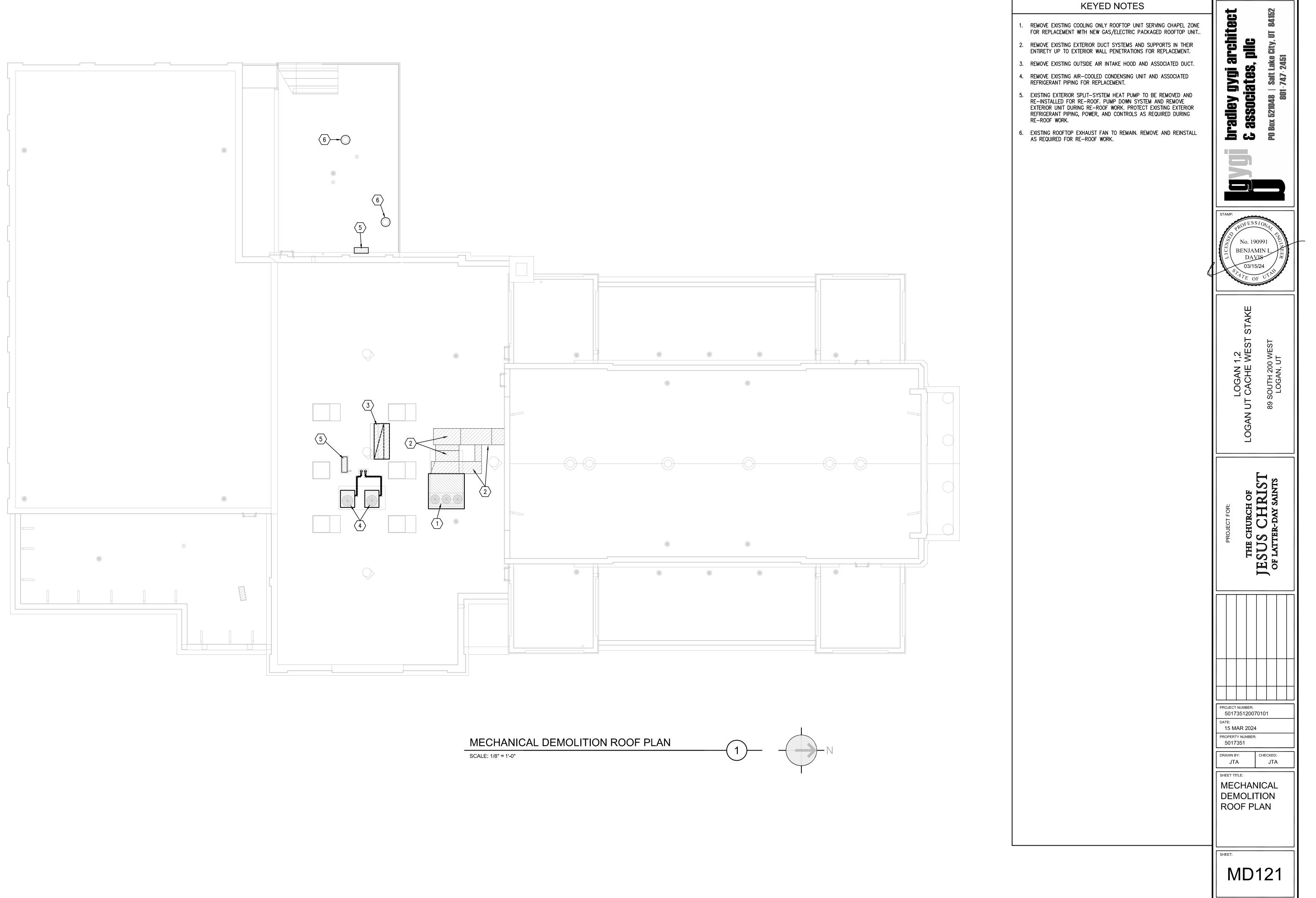
**bradley gygi architect & associates, pllc** 2150 South 1300 East, Suite 500 Salt Lake City, Utah 84106 801.747.2451

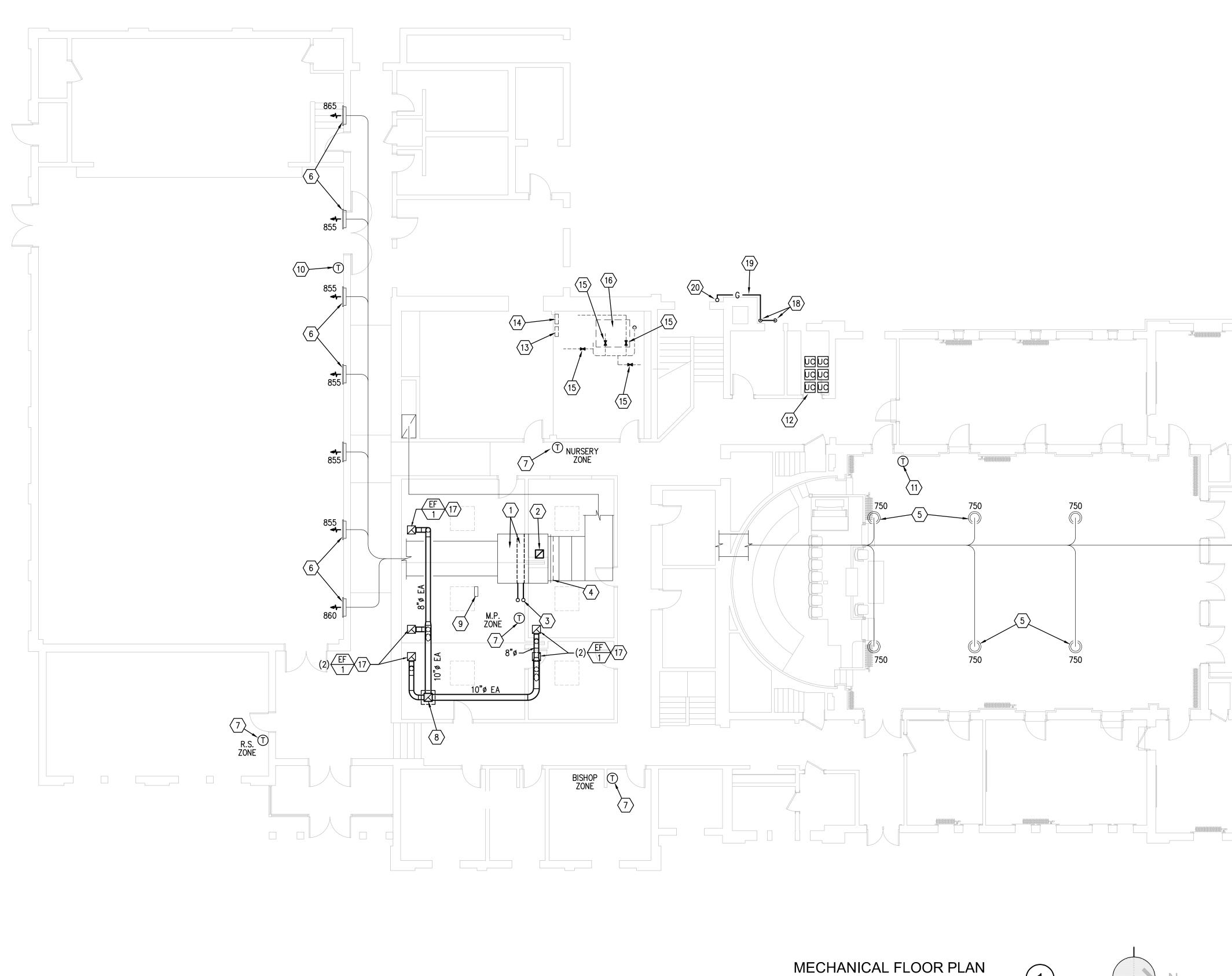
S204



MECHANICAL DEMOLITION FLOOR PLAN SCALE: 1/8" = 1'-0"

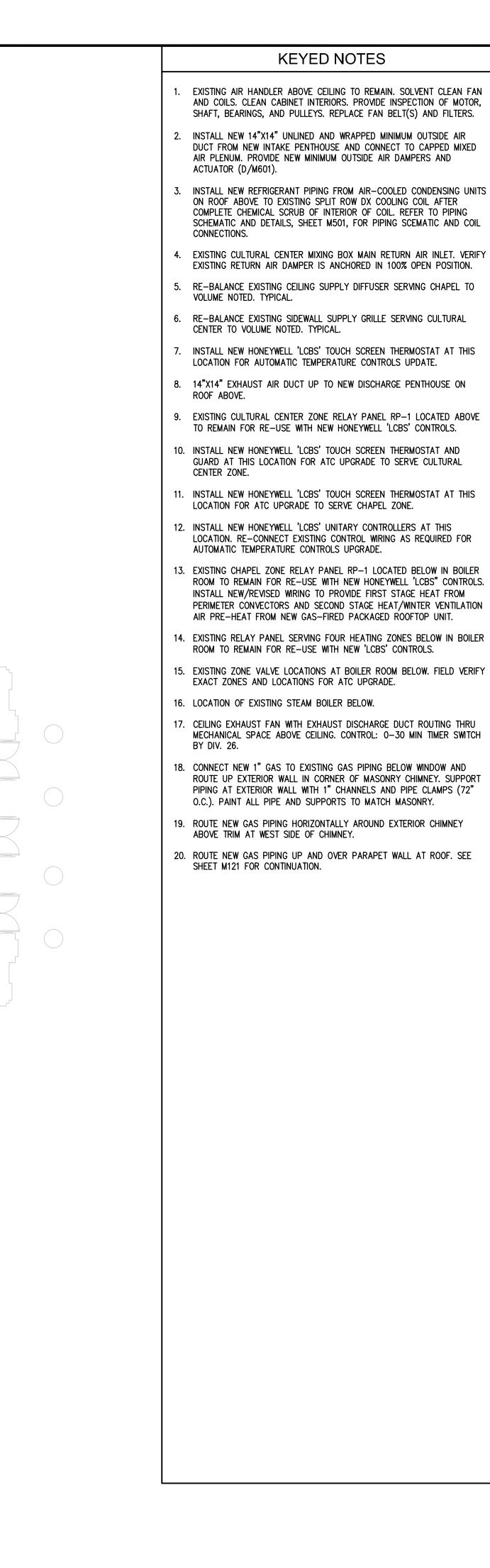
GENERAL NOTES	
1. EXISTING PIPING AND EQUIPMENT SHOWN FOR CONTRACTOR'S REFERENCE. FIELD DETERMINE EXACT SIZE, ELEVATION, AND LOCATION OF EXISTING ITEMS, INCLUDING THEIR RELATIONSHIP WITH INTENDED WORK PRIOR TO STARTING ANY WORK.	c c y, ur 84152
2. PATCH AND REPAIR ALL EXISTING SURFACES DAMAGED BY NEW CONSTRUCTION TO MATCH EXISTING.	<b>archi</b> , <b>pllc</b> ake City, U 451
<ol> <li>SAW CUT OR CORE DRILL ALL NEW PENETRATIONS THROUGH EXISTING MASONARY CONSTRUCTION.</li> </ol>	/ gygi a ciates,   8   Salt Lake 801 · 747 · 245
4. IF CONTRACTOR ENCOUNTERS MATERIAL THAT MAY CONTAIN ASBESTOS, HE SHALL IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.	<b>radley gygi 8</b> <b>associates,</b> Box 521048   Salt Lak 801 · 747 · 24
<ol> <li>DEMOLITION - GENREAL:         <ul> <li>a. REMOVAL OF EQUIPMENT, PIPING, OR DUCTWORK TO INCLUDE REMOVAL OF ALL RELATED APPURTENANCES SUCH AS WIRING, CONDUIT, SUPPORTS, ETC. AND MODIFICATIONS REQUIRED FOR A COMPLETE OPERATING SYSTEM.</li> <li>b. REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.</li> <li>c. PATCH AND REPAIR ALL EXISTING SURFACES (WALL, ROOF, FLOOR, CEILING, ETC.) TO MATCH EXISTING.</li> </ul> </li> </ol>	<b>JVG bradley gygi arc</b> <b>E associates, pll</b> PD Box 521048   Salt Lake City 801 · 747 · 2451
<ul> <li>6. REMODEL – GENERAL:</li> <li>a. ALL NEW CONDUIT, PIPING, DUCT, EQUIPMENT, AND APPURTENANCES TO BE CONCEALED UNLESS OTHERWISE NOTED.</li> <li>b. EXISTING SURFACES (WALL, ROOF, FLOOR, CEILING, ETC.) TO BE REMOVED AS REQUIRED AND REPLACE TO MATCH EXISTING.</li> </ul>	STAMP: PROFESSIONAL SP No. 190991
KEYED NOTES	No. 190991 BENJAMIN L.
1. EXISTING AIR HANDLER AND DX COOLING COIL SERVING CULTURAL CENTER ABOVE CEILING TO REMAIN FOR RE-USE WITH NEW AIR-COOLED CONDENSING UNITS AND REFRIGERANT PIPING. PROVIDE COMPLETE CHEMICAL SCRUB OF INTERIOR OF EXISTING COOLING COIL FOR USE WITH NEW R-410₫ REFRIGERANT AND ASSOCIATED COMPRESSOR OIL.	PATE OF UTAT
2. REMOVE EXISTING OUTSIDE AIR DUCT FROM AIR HANDLER MIXING BOX INCLUDING DAMPER, LINKAGE, AND DAMPER ACTUATOR. CAP EXISTING OPENING FOR NEW MINIMUM OUTSIDE AIR DUCT CONNECTION.	STAKE
3. REMOVE EXISTING REFRIGERANT PIPING SERVING CULTURAL CENTER AIR HANDLER IN ITS ENTIRETY FOR REPLACEMENT.	
<ol> <li>EXISTING CULTURAL CENTER MIXING BOX MAIN RETURN AIR INLET. ANCHOR EXISTING RETURN AIR DAMPER IN 100% OPEN POSITION.</li> </ol>	LOGAN 1,2 - CACHE WEST SOUTH 200 WEST LOGAN, UT
5. EXISTING CEILING SUPPLY DIFFUSER SERVING CHAPEL. TYPICAL.	LOGAN 1,2 CACHE WES SOUTH 200 WES LOGAN, UT
<ol> <li>EXISTING SIDEWALL SUPPLY GRILLE SERVING CULTURAL CENTER. TYPICAL.</li> <li>LOCATION OF EXISTING REMOTE PUSH-BUTTON SENSOR SERVING ZONE</li> </ol>	LOC LOC
HEATING VALVE. REMOVE FOR REPLACEMENT WITH NEW TOUCH SCREEN THERMOSTAT	
<ol> <li>REMOVE EXISTING CEILING EXHAUST GRILLE AND RELATED EXHAUST DUCT.</li> <li>LOCATION OF EXISTING CULTURAL CENTER ZONE RELAY PANEL RP-1 ABOVE.</li> </ol>	LOGAN
10. LOCATION OF EXISTING REMOTE PUSH-BUTTON SENSOR SERVING CULTURAL CENTER ZONE. REMOVE FOR REPLACEMENT WITH NEW TOUCH SCREEN THERMOSTAT AND GUARD.	
11. LOCATION OF EXISTING REMOTE PUSH-BUTTON SENSOR SERVING CHAPEL ZONE. REMOVE FOR REPLACEMENT WITH NEW TOUCH SCREEN THERMOSTAT.	LSL INTS
12. LOCATION OF EXISTING PROGRAMMABLE THERMOSTATS. REMOVE FOR REPLACEMENT WITH NEW UNITARY CONTROLLERS.	THE CHURCH O ESUS CHR OF LATTER-DAY SAI
13. LOCATION OF EXISTING CHAPEL ZONE RELAY PANEL RP-1 BELOW IN BOILER ROOM.	THE CHURCH SUS CH LATTER-DAY (
14. LOCATION OF RELAY PANEL SERVING FOUR HEATING ZONES BELOW IN BOILER ROOM.	THE C SUS
15. ZONE VALVE LOCATIONS AT BOILER ROOM BELOW. FIELD VERIFY EXACT ZONES AND LOCATIONS FOR ATC UPGRADE.	JES OF I
16. LOCATION OF EXISTING STEAM BOILER BELOW.	
	PROJECT NUMBER: 501735120070101 DATE:
	15 MAR 2024 PROPERTY NUMBER: 5017351
	DRAWN BY: CHECKED: JTA JTA
	SHEET TITLE: MECHANICAL DEMOLITION FLOOR PLAN
	MD101



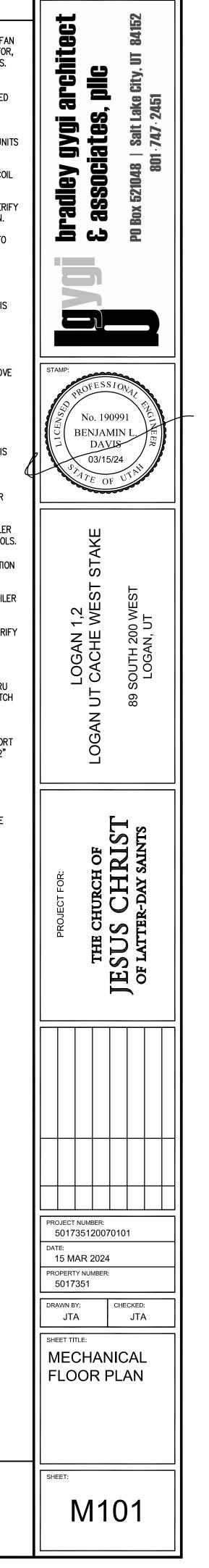


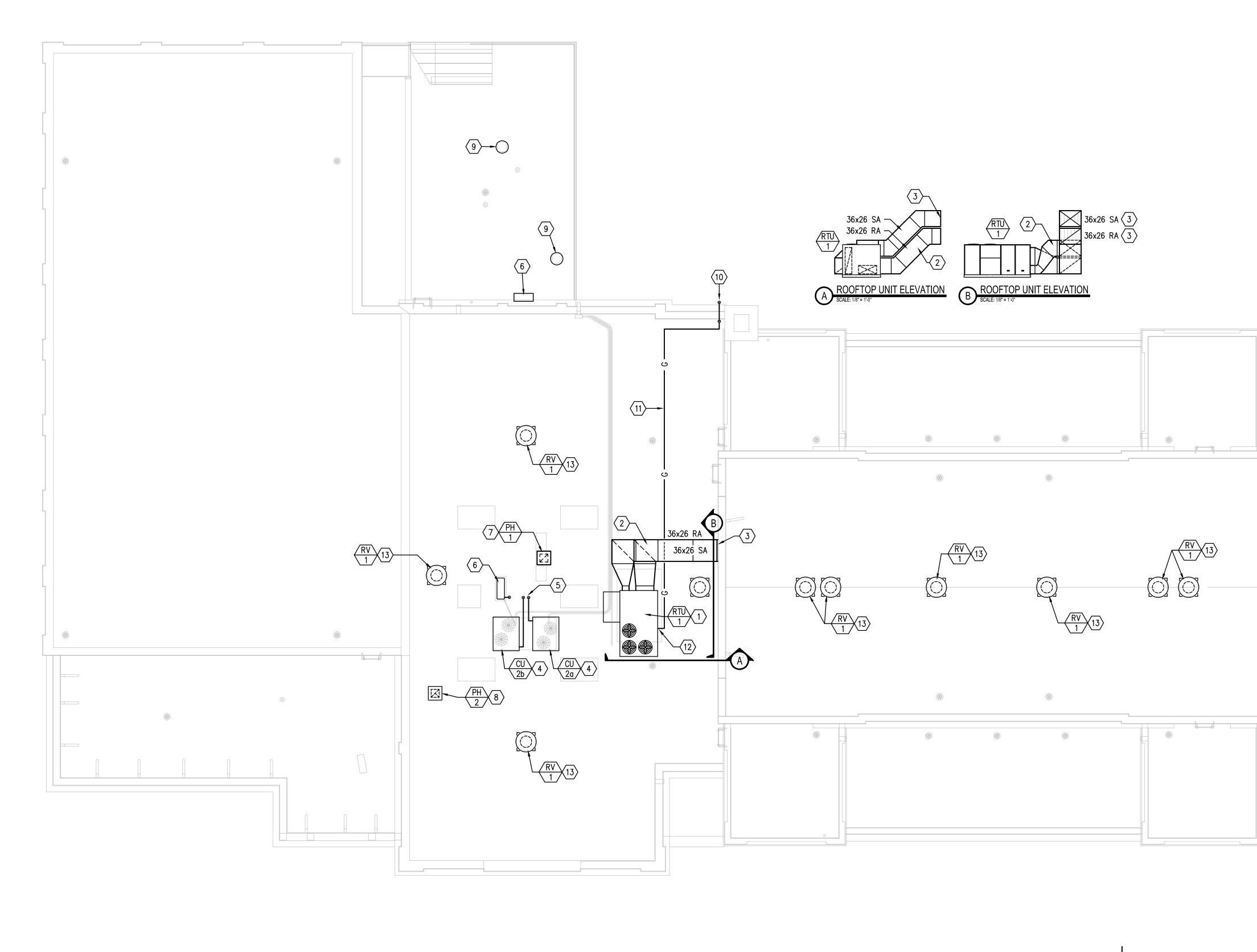
SCALE: 1/8" = 1'-0"

E: 1/8" = 1'-0"

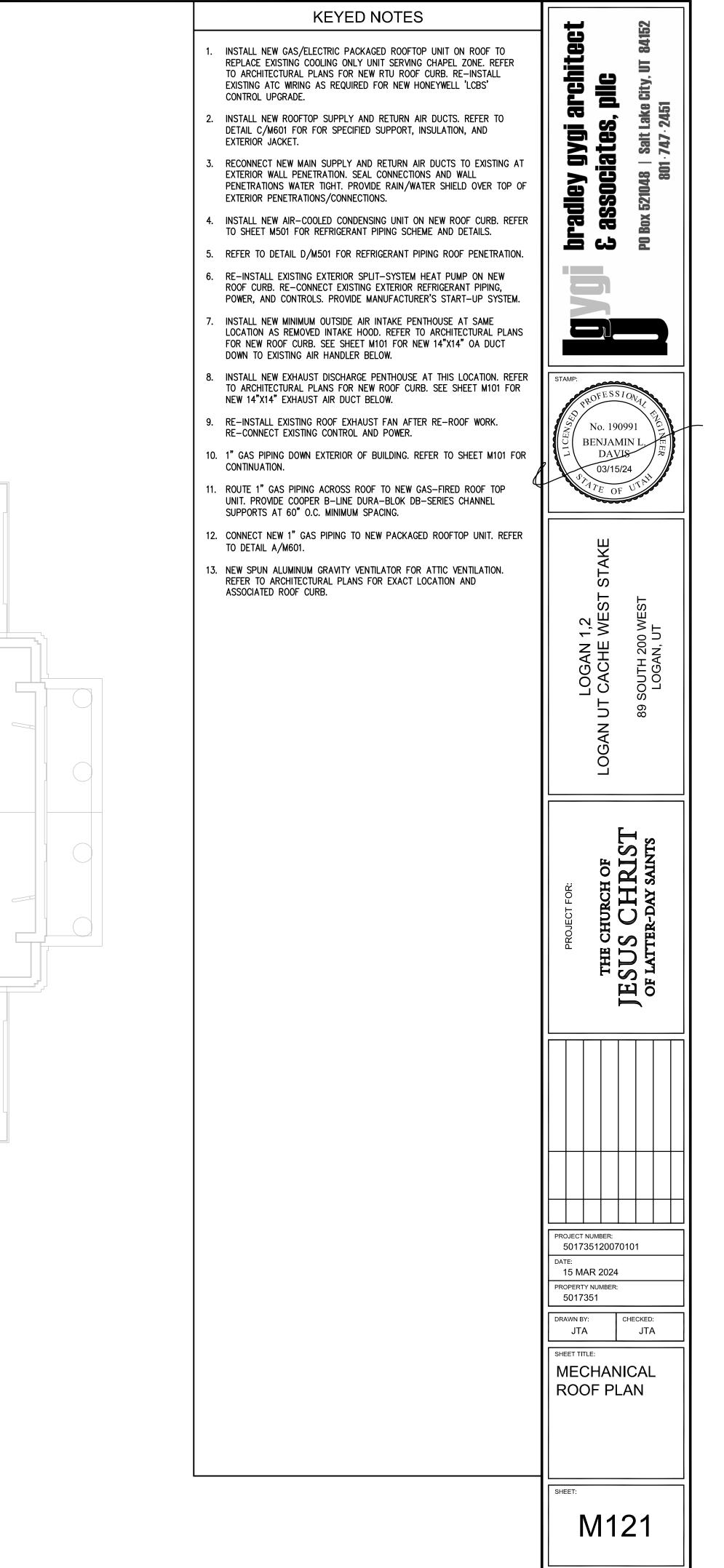


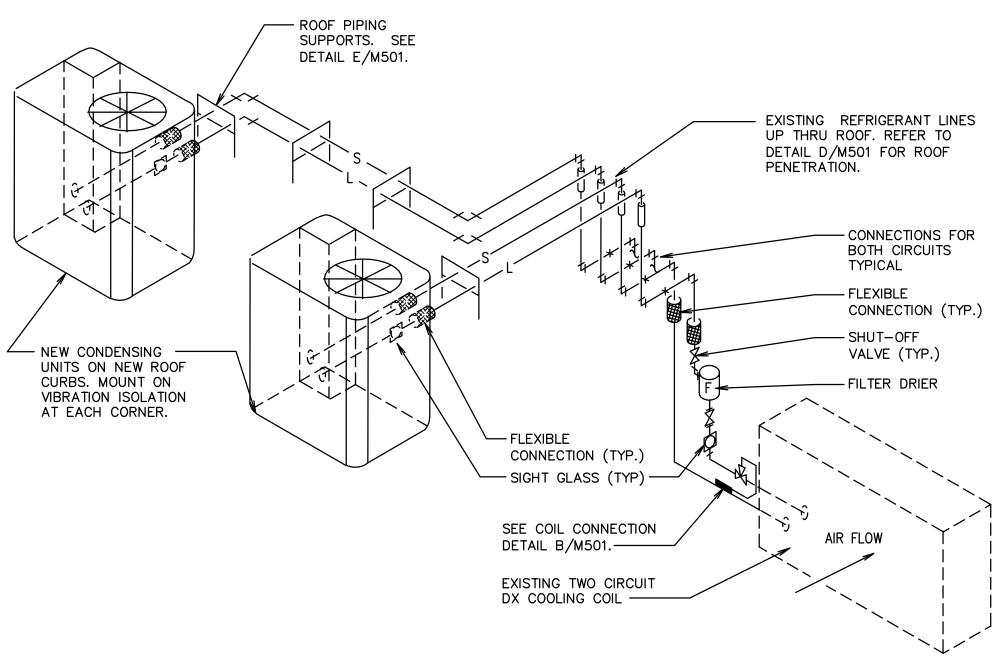
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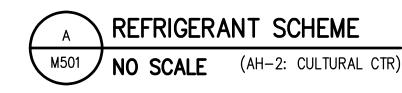


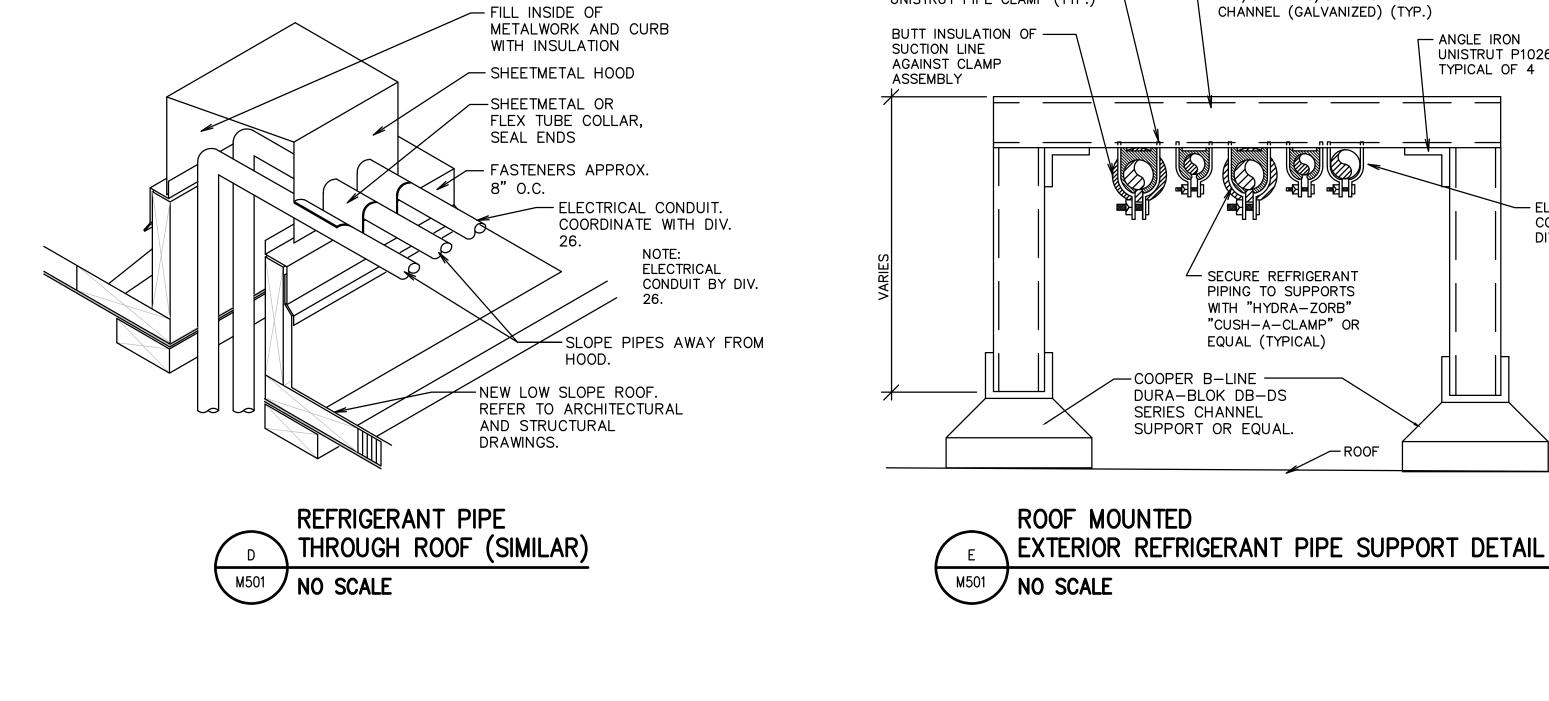


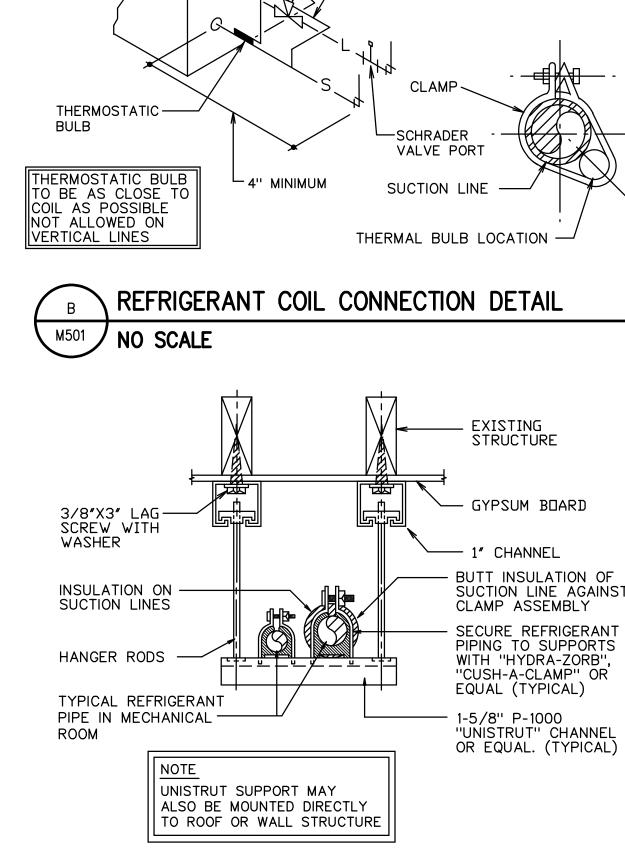
MECHANICAL ROOF PLAN







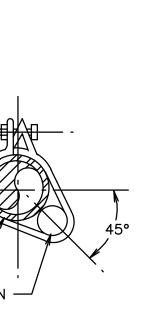




DX COIL

SUSPENDED REFRIGERANT PIPE SUPPORT С M501 NO SCALE

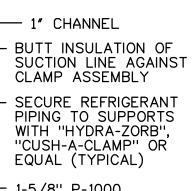
UNISTRUT PIPE CLAMP (TYP.)

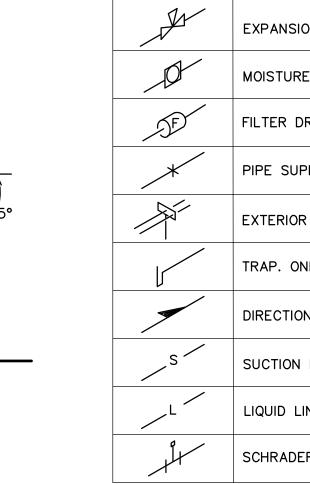




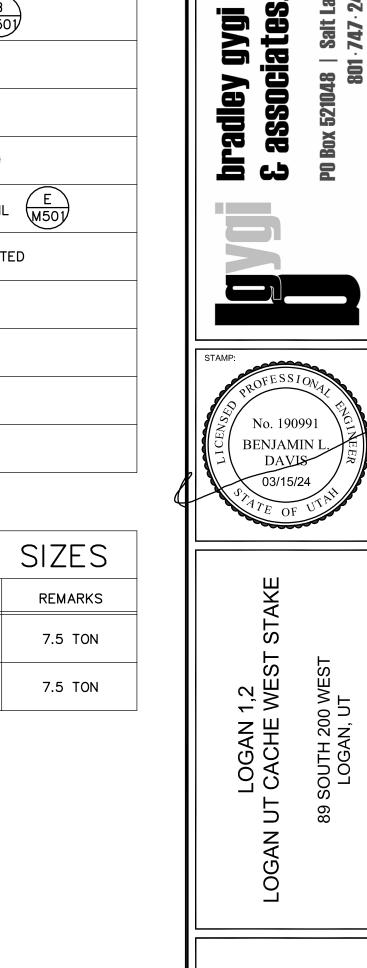
- THERMOSTATIC EXPANSION VALVE

- EQUALIZING LINE





REFRI	GERANT PIPING LEGEND					
SYMBOL	DESCRIPTION					
A	EXPANSION VALVE. SEE DETAIL					
0	MOISTURE INDICATING SIGHT GLASS					
F	FILTER DRIER					
*	PIPE SUPPORT. SEE DETAIL					
	EXTERIOR PIPE SUPPORT. SEE DETAIL					
	TRAP. ONE PIECE FACTORY FABRICATED					
	DIRECTION OF SLOPE DOWN					
S	SUCTION LINE					
_L	LIQUID LINE					
, li	SCHRADER VALVE PORT					



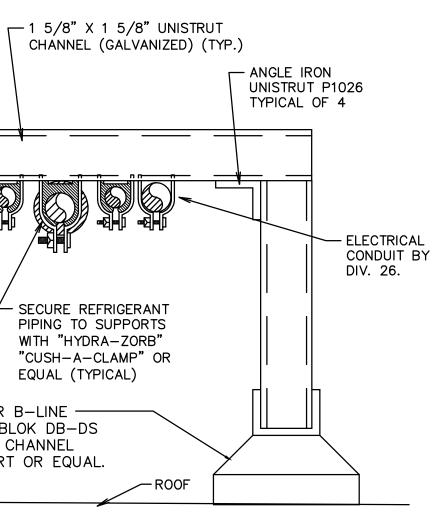
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City,

2451



### REFRIGERANT LINE SIZES UNIT LIQUID SUCTION $\left< \begin{array}{c} CU\\ 2a \end{array} \right>$ 1/2" 1-1/8'' CU 2b 1/2" 1-1/8''

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS PROJECT NUMBER: 501735120070101 DATE: 15 MAR 2024 PROPERTY NUMBER: 5017351 DRAWN BY: CHECKED: JTA JTA SHEET TITLE: REFRIGERANT PIPING DETAILS AND SCHEMATIC SHEET: M501

	ROOFTOP UNIT SCHEDULE																							
MARK	MARK TYPE MIN. SIZE A.C.F.M. IN W.C. HEATING CAPACITY							MIN. CIRCUIT		MINIMUM OUTSIDE AIR A.C.F.M	NAT. GAS CONNECTION	NOTES												
		SIZE (TONS)	IIN. W.		· IN.W.G.		IN.W.G.		INPUT OUTP	OUTPUT	AMBIENT	ТОТ.МВН	SEN.MBH	DB °F	WB °F	DB °F	WB °F	H.P.		AMPS	MOCP	A.C.F.M	SIZE	
RTU 1	PACKAGED GAS FIRED	15.0	6000	1.25	144.0	116.8	95	160.0	135.0	80	63	55.1	53.1	3.0	1909	67	80	600	0.75''	1, 2, 3, 4, 5, 6, 7				

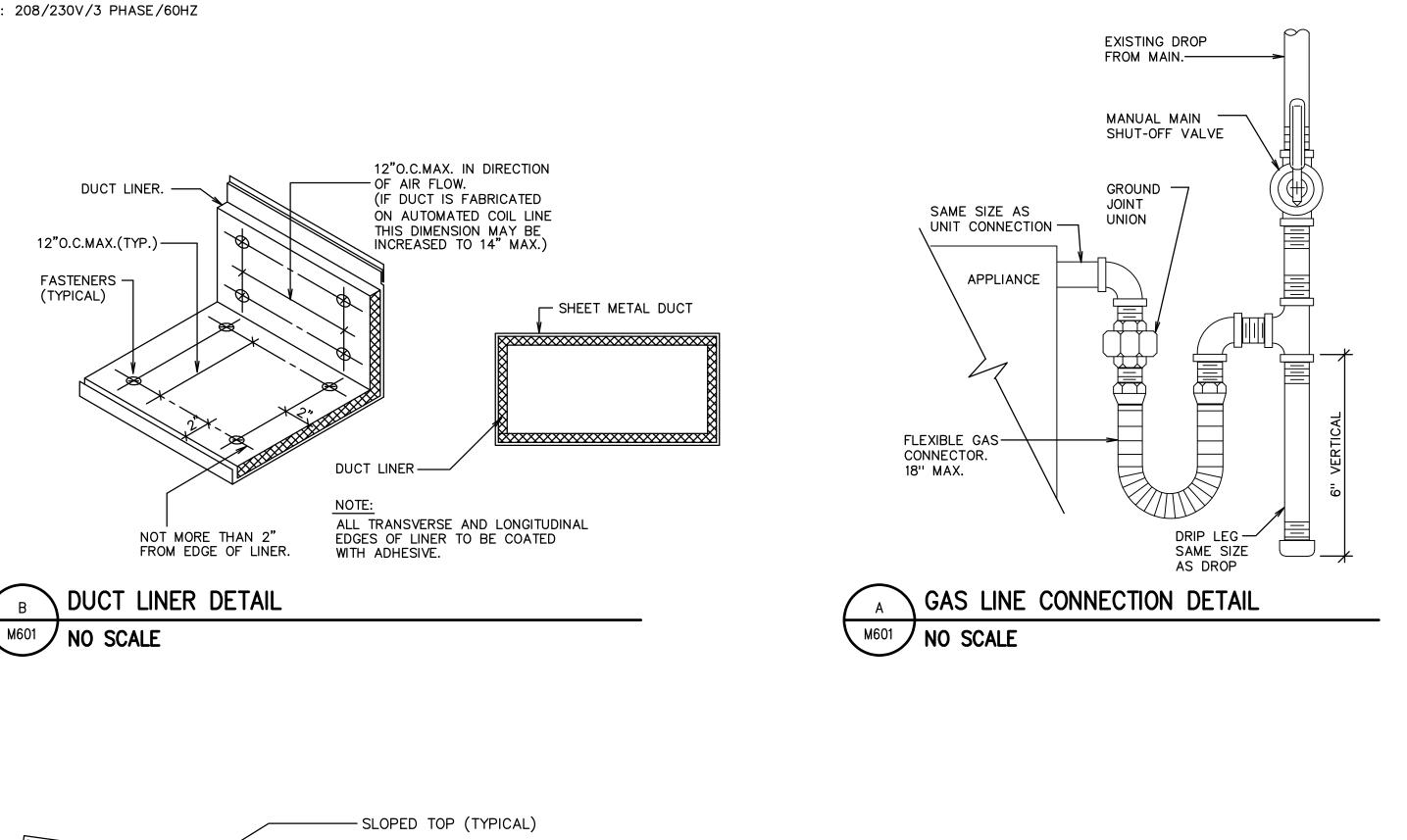
NOTES: 1. CAPACITIES AT PROJECT ELEVATION = 4500 FT.

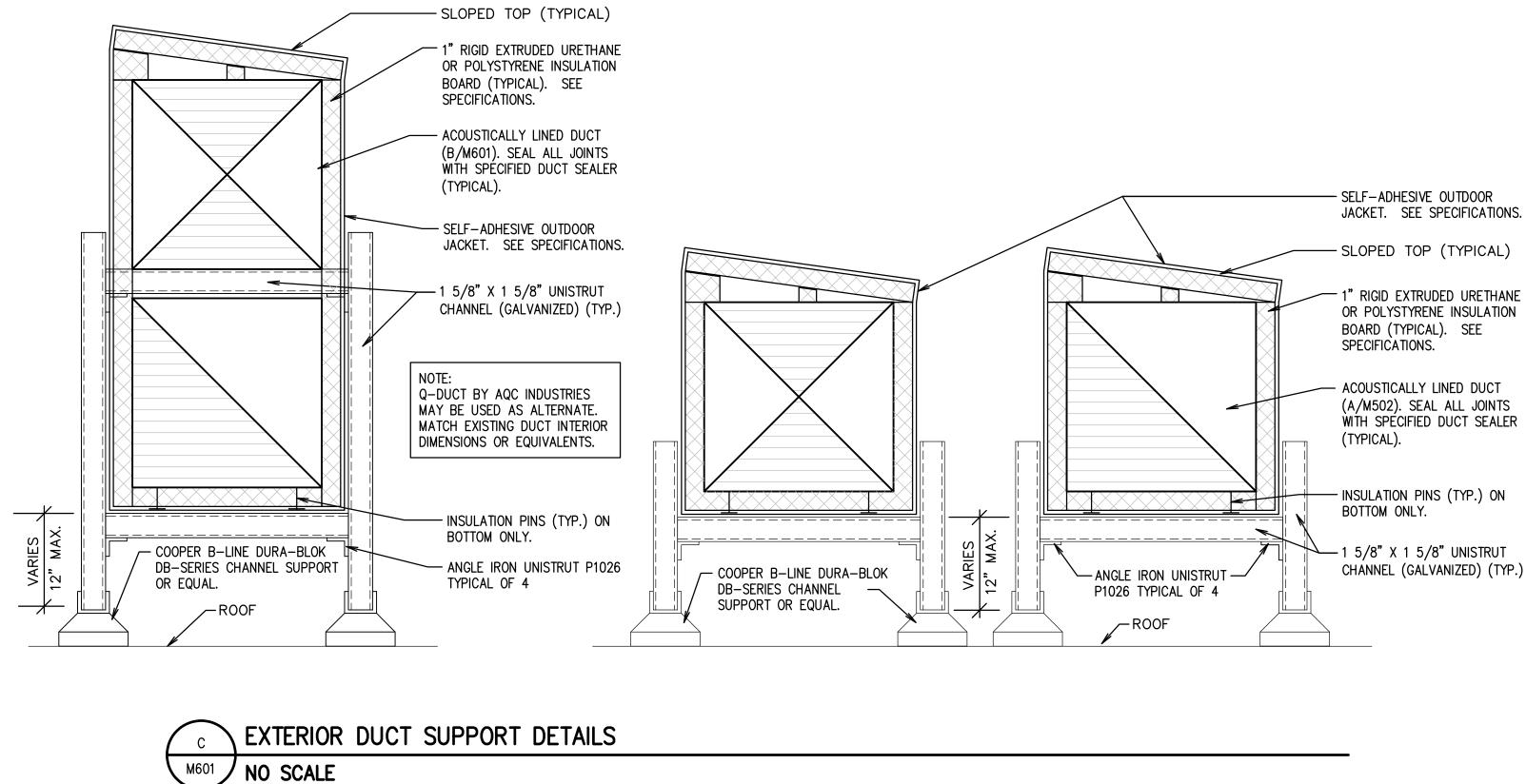
2. FACTORY INSTALLED LOW LEAKAGE ECONOMIZER WITH BAROMETRIC RELIEF. 3. PROVIDE SUPPLY AND RETURN AIR DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.

4. UNIT TO BE CARRIER 48FCDM16A2A5. COMPLETE WITH 2-STAGE COOLING, 2-STAGE HEATING, DRY BULB & ENTHALPY ECONOMIZER CONTROLS, AND FACTORY INSTALLED NON-FUSED DISCONNECT SWITCH & GFI SERVICE OUTLET.

5. OPERATING WEIGHT: 1850 LBS.

6. HORIZONTAL SUPPLY / HORIZONTAL RETURN. 7. ELECTRICAL CHARACTERISTICS: 208/230V/3 PHASE/60HZ





EXISTING AIR HANDLING UNIT SCHEDULE									
				EXT.		мот	0 R (1)	FAN RPM	
MARK	MANUFACTURER & MODEL NO.	AREA SERVED	MINIMUM A.C.F.M.	EXT. S.P. IN.W.G.	DX COIL	H.P.	VOLT/PH	SPEED	REMARKS
$\left( \begin{array}{c} AH \\ 2 \end{array} \right)$	(E) MCQUAY MODEL ?	CULTURAL CENTER	6000	2.5	EXISTING INTEGRAL TO UNIT	7.5	208/3	1760	HORIZ. DRAW-THRU
(1) EX	ISTING CONDITIONS.		·						

FROM OA PENTHOUSE ON ROOF ABOVE

M601 NO SCALE

G	AIR	HANDLING	UNIT	SCHEDULE	23

(2) AIR HANDLER MARK CORRESPONDS WITH AIR COOLED CONDENSING UNIT MARKS.

(3) VERIFY ALL EXISTING CONDITIONS.

Alf	R-COOI	LED CC	NDE	ISING	GUNIT SCHEDULE
ARK	MIN. ② NOMINAL SIZE (TONS)	(4) MINIMUM CIRCUIT AMPACITY	(4) моср	POWER SUPPLY	REMARKS
CU 2a	7.5	35.0	50	3	38AUZE08 (5)
CU 2b	7.5	35.0	50	3	38AUZE08 (5)

(1) CONDENSING UNIT MARKS CORRESPOND WITH AIR HANDLER AND FURNACE SYSTEM MARKS. (2) AT DESIGN CONDITIONS AND 95°F ENTERING AIR TEMPERATURE TO CONDENSER. (3) ELECTRICAL CHARACTERISTICS-COMPRESSOR: 208V/3 PHASE/60HZ (4) COORDINATE ACTUAL RATING OF UNIT PROVIDED WITH DIVISION 26.

(5) CARRIER MODEL LISTED. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

EXHAUST	FA	N SCH	IEDULE	23
SERVES ROOM	MIN. (1) S.C.F.M.	STATIC PRESSURE IN. W.G.	MIN. WATTS	REMARKS
CLASSROOMS	150	0.25	166W	PROVIDE BACK-DRAFT DAMPER

() SET BALANCE DAMPERS TO

MARK

/EF\

1/

CFM LISTED

② CONTROL: 0-30 MINUTE TIMER SWITCH BY DIVISION 26.

③ VOLTAGE IS 115/1PHASE/60

F	PENTHOL	JSE / F	ROOF	VENT	SCHEDULE
MARK	TYPE	SERVICE	CFM RANGE	NOMINAL SIZE	REMARKS
PH-1	PENTHOUSE	OUTSIDE AIR	600	14X14	23
PH-2	PENTHOUSE	EXHAUST AIR	750	14X14	23
RV-1	ROOF VENT	ROOF VENTILATION	NA	20''	23

(1) SEE SPECIFICATION FOR APPROVED MANUFACTURER.

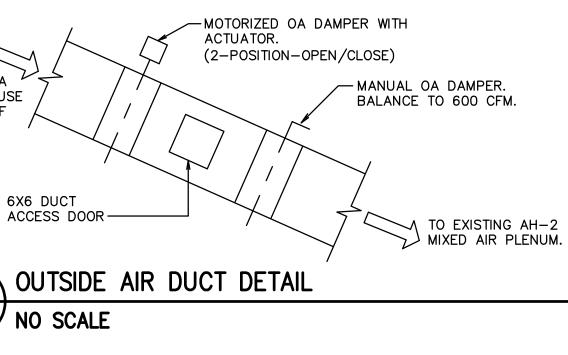
(2) PROVIDE ALUMINUM BIRD OR INSECT SCREENS. REFER TO SPECIFICATIONS.

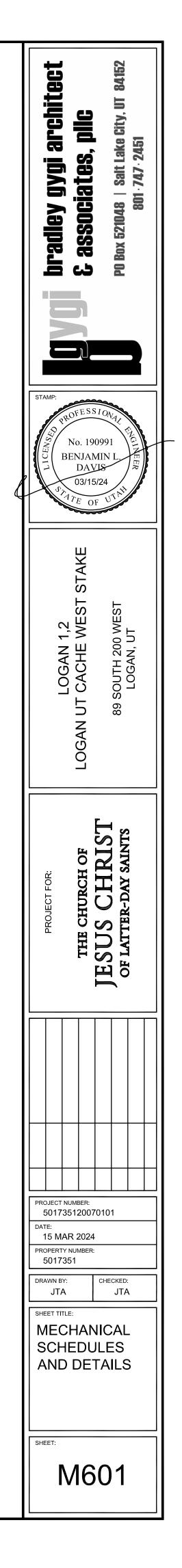
(3) ALUMINUM FINISH.

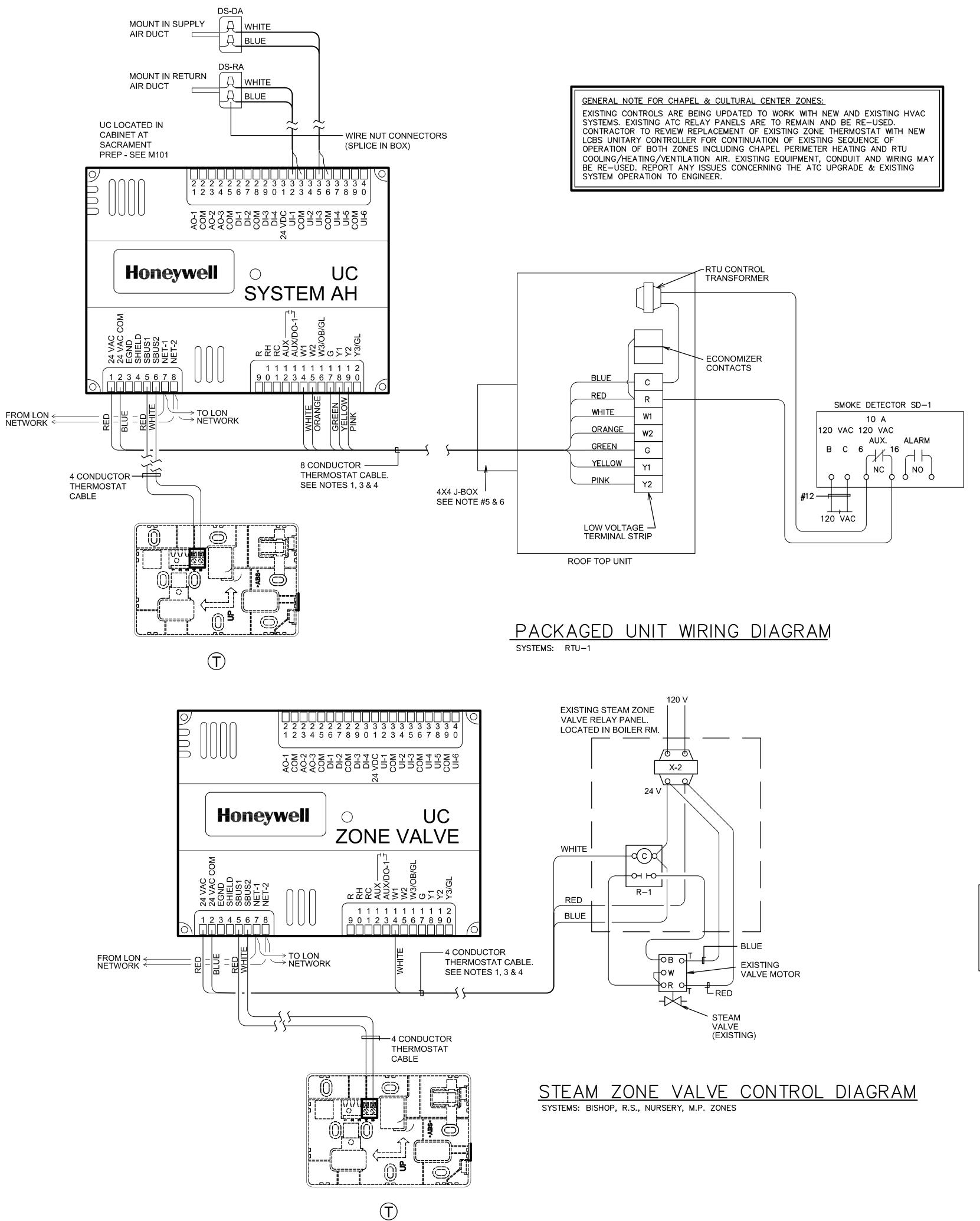
NOTES:

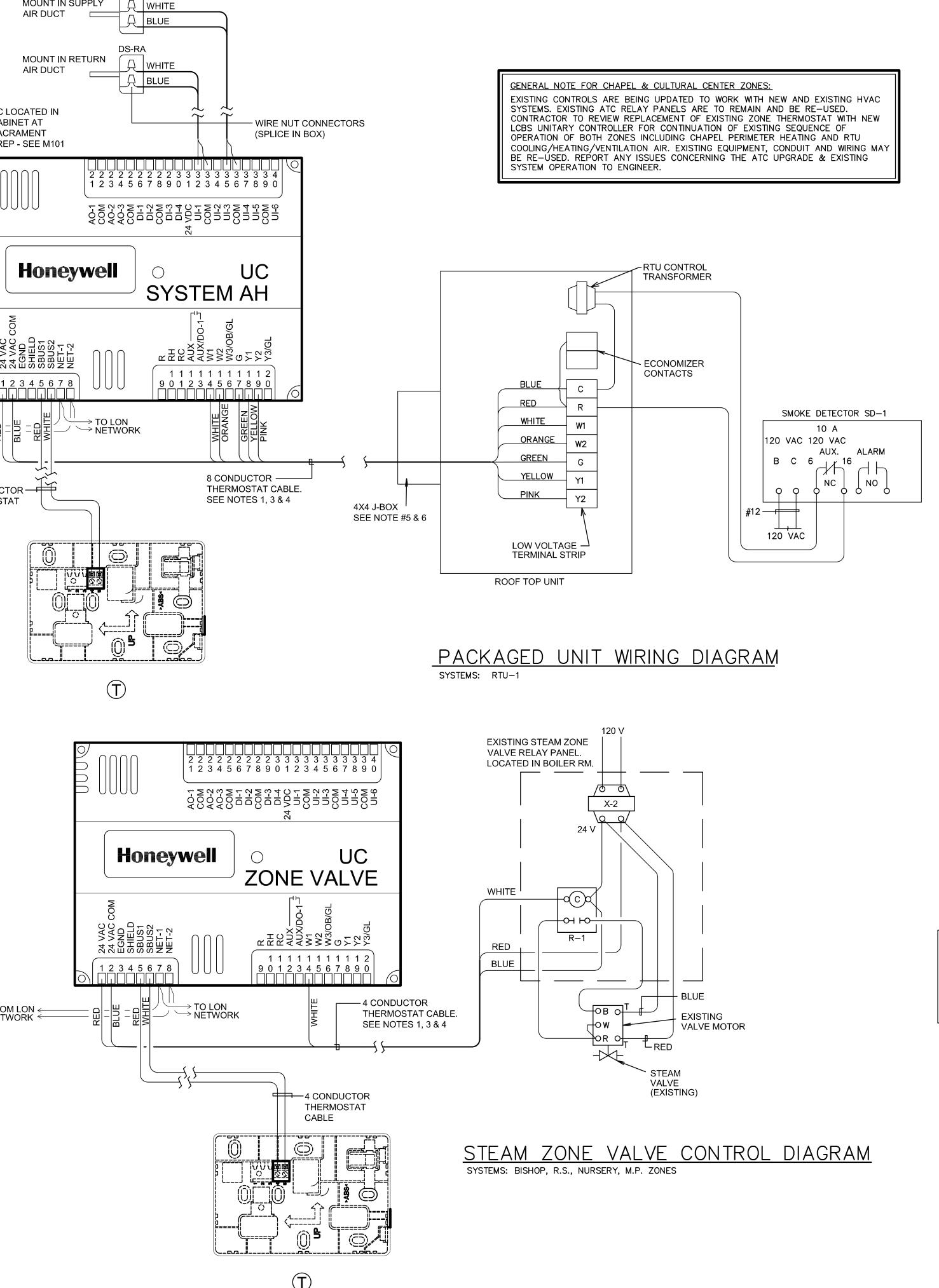
1- THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT & CONTROLS. MOTOR NAME PLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT THREE PHASE SYSTEM AND SHALL BE NEMASTANDARD 230 VOLT FOR 240 VOLT THREE PHASE OR SINGLE PHASESYSTEM. STARTER HEATERS INSTALLED SHALL BE COORDINATED WITH THE NAME PLATE DATA.

2- S.C.F.M. LISTED IS STANDARD AIR. A.C.F.M. IS ACTUAL SITE CFM.









	CONTROL EQUIPMENT							
MARK	DESCRIPTION	CAT. NO. (1)	MARK	DESCRIPTION	CAT. NO. (1)			
BMG	BUILDING MANAGEMENT GATEWAY	LGW1000 (GATEWAY) WPM-8000 (WALL PLUG)	RP-1	RELAY PANEL (EXISTING)				
UC	UNITARY CONTROLLER	YCRL64385R1000						
т	THERMOSTAT WALL MODULE	THP2400A1027W	DM-1	DAMPER MOTOR TWO POSITION	MS8105A1030			
	THERMOSTAT COVER PLATE ASSEMBLY	50002883-001	X-1	TRANSFORMER 120, 208, 240V/24V 75VA	AT175F1023			
S	REMOTE SENSOR	TR40	X-2	TRANSFORMER 120, 208, 240V/24V 50VA	AT150F1022			
DS	DUCT AIR SENSOR	C7041B2005	RIB	TWO POLE RELAY	RIBU1C 2			
CO₂	CO₂ SENSOR DUCT ③ MOUNTED	C7232B1006	SD-1	DUCT SMOKE DETECTOR	2			
EBUS	ECHELON NETWORK CABLE	W221P-2001B	SR	SMOKE RELAY 30 AMP 120V COIL	(4) DP2030B5003			
G-1	THERMOSTAT GUARD	2 5						

(1) ALL CATALOG NUMBERS SHOWN ARE HONEYWELL UNLESS NOTED OTHERWISE.

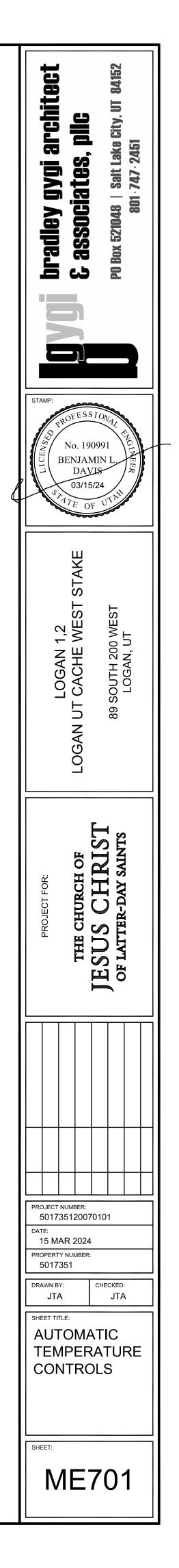
- (2) SEE SPECIFICATIONS
- (3) MOUNT CO2 SENSOR IN MAIN RETURN AIR DUCT, PRIOR TO OA CONNECTION.
- (4) PROVIDE ENCLOSURE
- (5) PROVIDE GUARD AT THERMOSTAT WALL MODULE LOCATED IN CULTURAL CENTER.

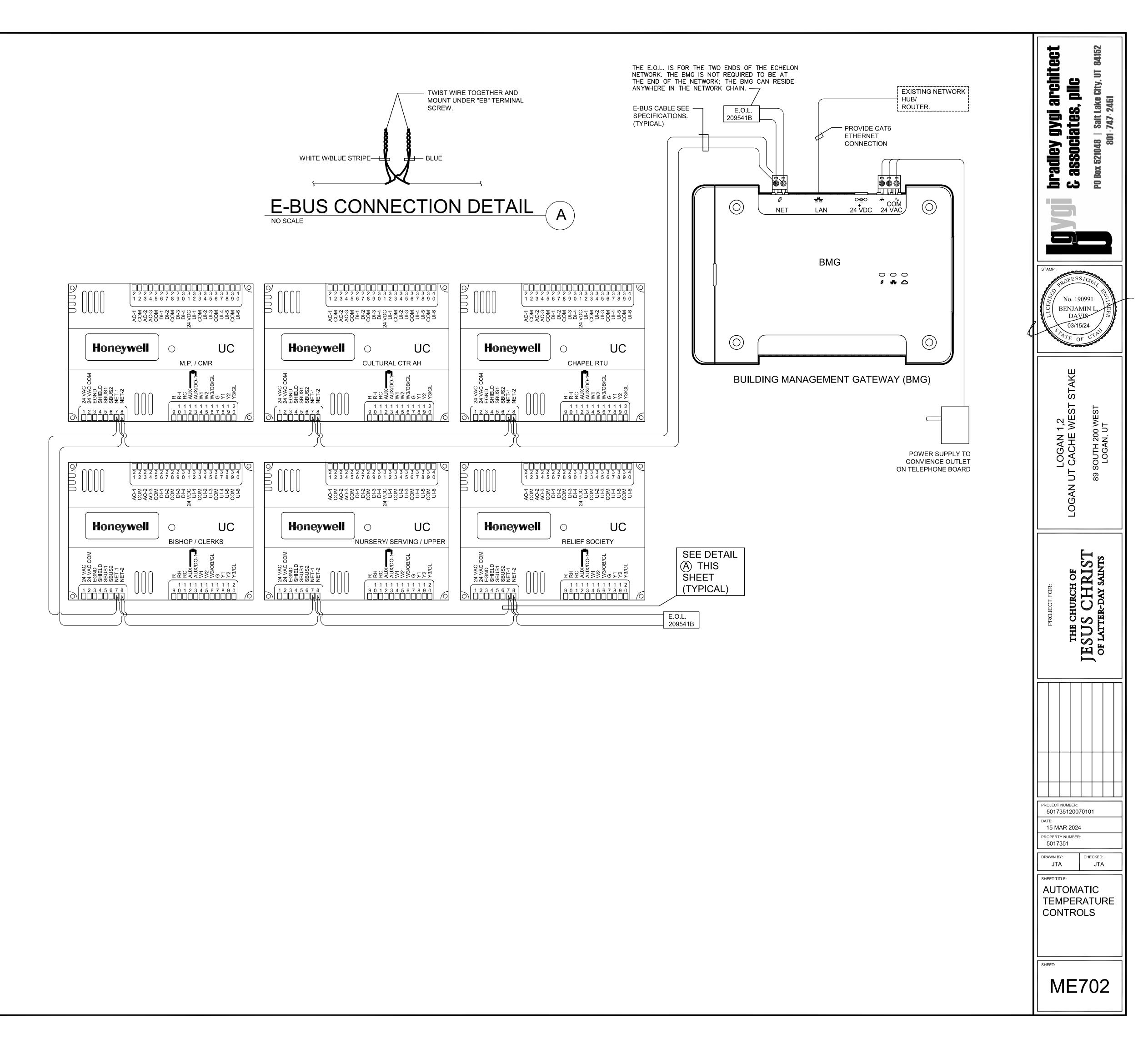
### NOTES:

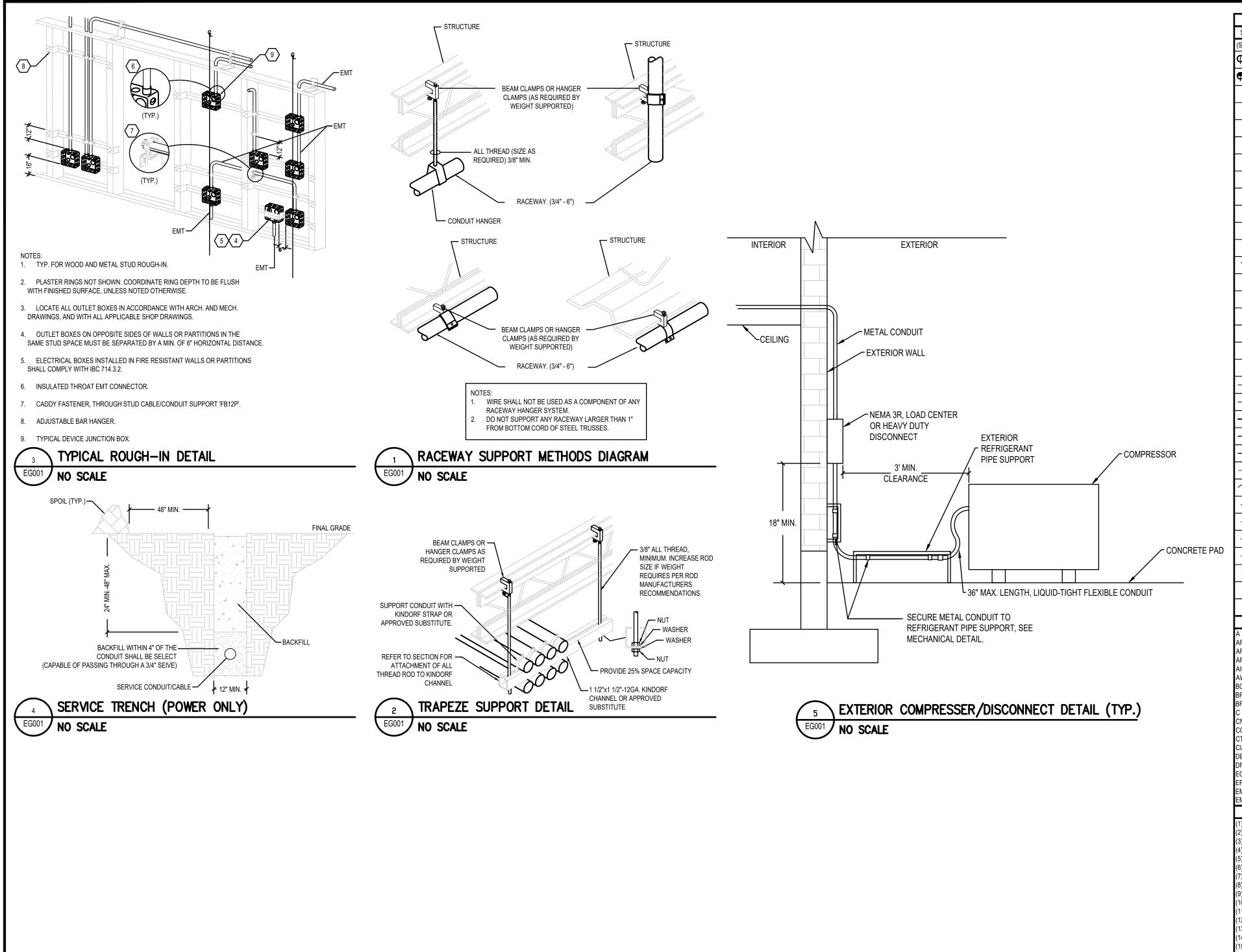
- 1. THERMOSTAT CABLE- 4, 8 OR 12 CONDUCTOR- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
- 2. IF COMPRESSOR UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN COMPRESSOR UNIT TO PROPERLY INTERFACE CONTROLS.
- 3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS IN SPECIFIED LOCATIONS. AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
- 4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
- 5. VERIFY THAT FAN UNIT FAN SPEED CONTROL WIRING IS SET TO MATCH SCHEDULE SHEET AND THAT FAN OPERATES AT COOLING SPEED ONLY.
- 6. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO FURNACE, AND THERMOSTAT TO DISCHARGE AIR SENSOR.
- 7. PROVIDE CHASE NIPPLE W/PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
- 8. PROVIDE CABLE CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.
- 9. CONTROLS ARE NEW UNLESS NOTED OTHERWISE. EXISTING WIRING AND CONDUIT MEETING REQUIREMENTS MAY BE REUSED, OTHERWISE PROVIDE NEW.

### GENERAL NOTE:

EXISTING CONTROLS ARE BEING UPDATED TO WORK WITH NEW AND EXISTING HVAC SYSTEMS. DIAGRAMS SHOWN ARE FOR CONTRACTORS REFERENCE AND MAY NOT SHOW EXACT CONDITIONS. CONTRACTOR SHOULD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR STARTING CONTROL WORK. EXIST. EQUIPMENT, CONDUIT, AND WIRING MAY BE RE-USED IF THEY COMPLY WITH NEW REQUIREMENTS. REMOVE ALL UNUSED EQUIPMENT, CONDUIT, AND WIRING.



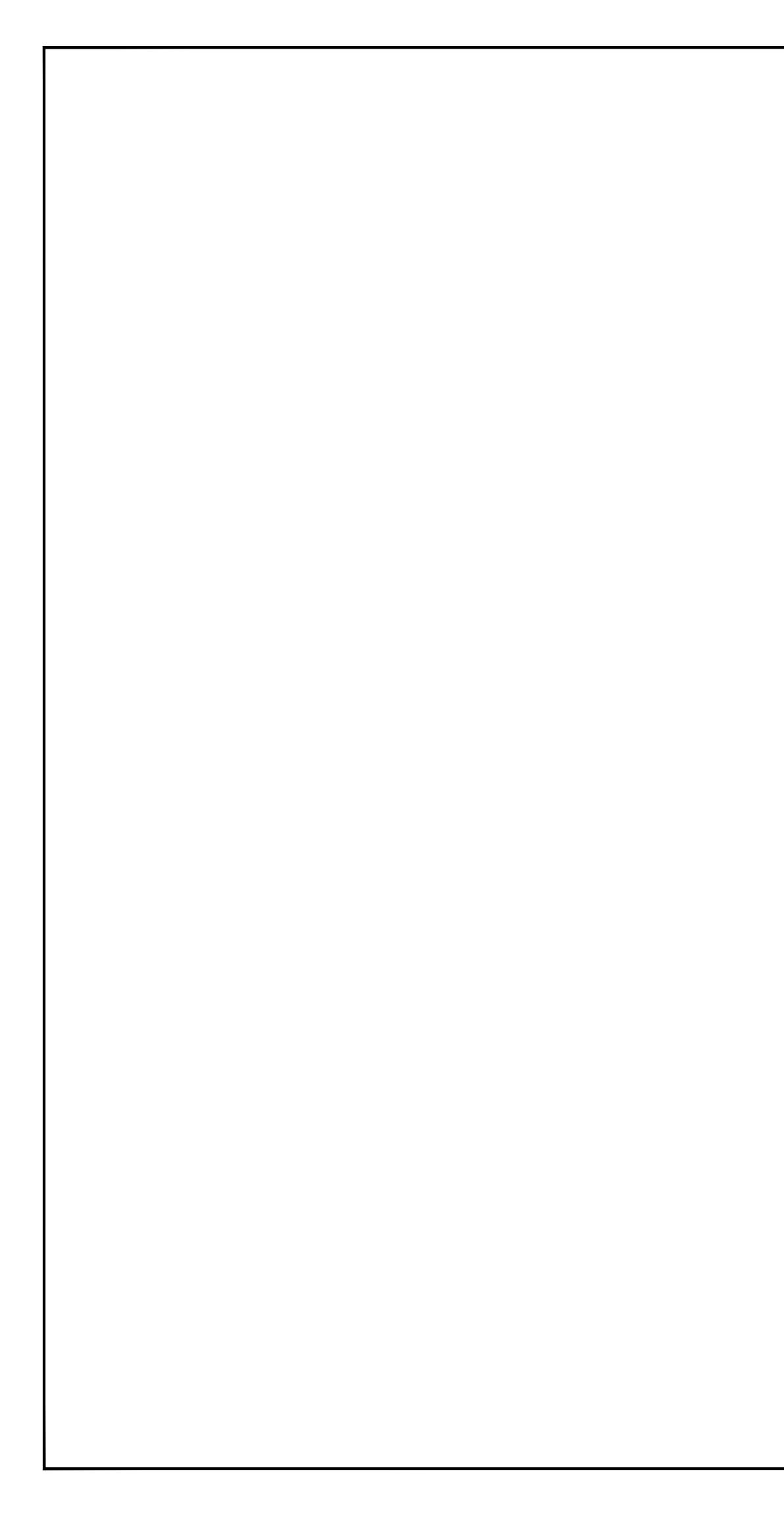




	ELECTRICAL SYMBOL SCI	HEDULE		GENERAL NOTES	سب		2
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS	1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE	itect		84152
(S) (D) (Q)				SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR. OMISSION OR CONFLICT	te d		
	STANDARD CONVENIENCE OUTLET	18"		EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS		د2	y, UT
•••	CONVENIENCE OUTLET, GFCI	18"		BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH	rch	plic	City,
VFD	VARIABLE FREQUENCY DRIVE			ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.			Lake 2451
0	JUNCTION BOX	AS NOTED	(12)	2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL	5	S	
\$ <sup>TH</sup>	MANUAL SWITCH WITH THERMAL OVERLOAD			ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE		Ite	Salt 747
Ľ	FUSED DISCONNECT SWITCH		(13) (14)	GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.			
	MAGNETIC STARTER		(13) (14)	3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.		8	521048 8
ď	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)	4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT	qle	$\overline{\mathbf{S}}$	521
R	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)	SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.		<b>asso</b>	Box
\$	MOTOR OUTLET			<ol> <li>THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE</li> </ol>		ځې	PO E
Ţ	TRANSFORMER	SEE PLANS		CORRECTED AT THE CONTRACTORS EXPENSE.			_
	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)	<ol> <li>ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT</li> </ol>			
	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)	EQUIPMENT IS BEING INSTALLED WITHIN.			
ത	DUCT SMOKE DETECTOR	SEE MECH.	(9)	7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A			
	MECHANICAL/PLUMBING EQUIPMENT CALLOUT			COMPLETE AND OPERABLE SYSTEM.			
(X-1)	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.			8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO			
	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.			LAND ALL NEW TELE/DATA CABLING.	0710		
$\odot$	LUMINAIRE TYPE			9. THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT	STAMP:		
	DIAGRAM/DETAIL CALLOUT			SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.	ALL 43		SNO 1
<u> </u>	CONDUIT RUN CONCEALED IN WALL OR CEILING			10. THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL		ewis W	
				PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.		No. 9075	
	SURFACE RACEWAY/WIREMOLD			11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE	A.	03/15/2	
	LOW VOLTAGE CONDUIT RUN			CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.	/ Es		THE THEAT
				12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT. BEFORE ROUGH-IN. OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC, A DISTANCE			
	DEMOLITION			OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.	/		
				<ol> <li>THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.</li> </ol>		111	
<u> </u>	HOME RUN TO PANEL			14. MINIMUM SIZE CONDUIT SHALL BE 3/4". ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND		TAKE	
	CONDUIT STUB			CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT			
S	CONDUIT BREAK/CONTINUATION			CONTACT WITH THE SOIL.		S L	L
•	CONDUIT STUB DOWN			<ol> <li>FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.</li> </ol>		N	ESI
o	CONDUIT STUB UP			16. WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE.	1.2	ME	M
	FUSE			17. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS,	AN	Щ	200 N, U
$\downarrow$	GROUND/GROUND ROD			HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.		CHE	GA
$\overline{\ }$	CIRCUIT BREAKER			18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.	00	CA	
A AMP	S ENT ELEC. NON-METAL. TUBING	NL NIGHT	LIGHT, BYPASS	19. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE		F	S O
AFC AVA	ILABLE FAULT CURRENT ER EXISTING TO BE RELOCATED	) LOCAL	SWITCHING ING CONTRACTOR	INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.		_ 7	8
AFG ABO	VE FINISHED GRADE FMC FLEXIBLE METAL CONDUIT	POC POINT	OF CONNECTION			OGAN	
AWG AME	S INTERR. CAPACITY GC GENERAL CONTRACTOR RICAN WIRE GAUGE GEC GRND. ELEC. COND. AT SES		ATE	20. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120 OR 277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU,THHN)+1#12(CU,THHN)GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU,THHN) FOR 120VAC BRANCH		Ö	
BFC BELC	E COPPER GFCI GRND. FLT. CURR. INTERR. DW FINISHED CEILING GND GROUND		METALLIC CONDUIT	CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.		Ĩ	
BFG BELO C CON	DW FINISHED GRADE     IMC     INTER. METAL CONDUIT       DUIT     IG     ISOLATED GROUND		NON-METALLIC COND. M BONDING JUMPER	21. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED. CONDUCTORS SIZES UP TO #10AWG			
CND CON CO CON	DUIT KCMIL 1000 CIRCULAR MILS (MCM) DUIT ONLY LFMC LIQUID-TIGHT FLEX.		CIRCUIT AMPERES	SHALL BE SOLID AND #8AWG AND LARGER SHALL BE STRANDED.			
CT CUR	RENT TRANSDUCER METAL. COND. PER MATERIAL LFNC LIQUID-TIGHT FLEX.		CONTROL CONTR.	22. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC UNLESS OTHERWISE REQUIRED BY THE NEC. MC CABLE SHALL NOT BE INSTALLED EXPOSED EXCEPT IN ATTIC SPACES 3 FEET AWAY FROM ANY WALKABLE		F	<b>⊣</b> ,,
DED DED	ICATED NON-METAL. COND. P FROM ABOVE MC MECHANICAL CONTRACTOR	UNO UNLES	S NOTED OTHERWISE	SURFACE.		ຼ້ວ	0 Ĕ
EC ELEC	CTRICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPS AUST FAN N1 NEMA 1	VIF VERIFY		23. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL		$\cap$	
EM EME	R/EGRESS BATTERY N3R NEMA 1 C. METALLIC TUBING N NEW	XP EXPLO	SION PROOF	EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.	FOR:	H	AY SA
	NOTES	AR EAISTI	NG TO BE REMOVED	24. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS. FOREIGN MATTER. PAINT, DIRT, GREASE, UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE			
( )	LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS. LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.			ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISIS.	ROJECT		
(3) WIRI	E LIGHT FIXTURE FROM ADJACENT J-BOX NECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGEN			25. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER	PRC	ÜC	
(5) DIRE	CTIONAL ARROWS INDICATE REQUIRED CHEVRONS.			CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE		THE	
(7) USE	RDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR E WITH POWER PACK.			OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.			
(-)	N SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. VIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PA			26. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.		je je	40
(11) USE	THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INS	STALLATION.		27. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED			
<b>\</b> / /	VIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE HEAVY DUTY DEVICE FOR 480 VOLT.	E/FIXTURE SERVE	).	CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.			
· /	TO THE EQUIPMENT BEING CONTROLLED ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NO	FIFICATION APPLIA	NCE CIRCUIT	28. PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR			
( - )	UN: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUA			REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING. DIRECTORY SHALL INCLUDE CONTRACTOR CONTACT INFORMATION AND DATE OF PROJECT			
	T FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON AC	TUAL DIMENSION	8.	AND EQUIPMENT/DEVICE IT IS FEEDING. DIRECTORY SHALL INCLUDE CONTRACTOR CONTACT INFORMATION AND DATE OF PROJECT COMPLETION.			
				29. LABEL MECHANICAL EQUIPMENT IDENTIFYING PANEL AND CIRCUIT NUMBER USE TO FEED IT. USE 1/16 INCH THICK LAMINATED PLASTIC			
				COMPOSITION MATERIAL WITH CONTRASTING COLOR CORE. ENGRAVED LETTERS SHALL BE 1/4 INCH HIGH. ATTACH LABELS WITH SCREWS.			
						+	+ + +

Sheet List Table						
Sheet Number	Sheet Title					
EG001	ELECTRICAL GENERAL					
EG601	ELECTRICAL SCHEDULES					
EG701	ELECTRICAL ONE-LINE DIAGRAM					
ED101	ELECTRICAL DEMO PLAN					
ED121	ELECTRICAL DEMO PLAN					
EP101	ELECTRICAL POWER PLAN					
EP121	ELECTRICAL POWER PLAN					

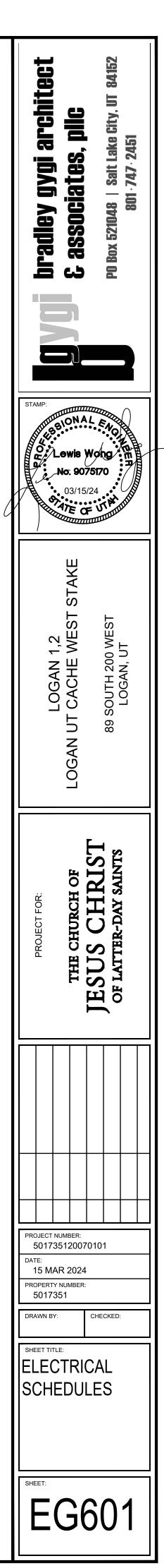
L AT O	<b>Dradley gygi ar</b> <b>E associates, pl</b> PO Box 521048   Salt Lake C 801 · 747 · 2451
e, Ce	STAMP: STAMP: Stamp
-L	LOGAN 1,2 LOGAN UT CACHE WEST STAKE 89 SOUTH 200 WEST LOGAN, UT
LL =	PROJECT FOR: THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
	PROJECT NUMBER: 501735120070101 DATE: 15 MAR 2024 PROPERTY NUMBER: 5017351 DRAWN BY: CHECKED:
	SHEET TITLE: ELECTRICAL GENERAL
	SHEET: EG001

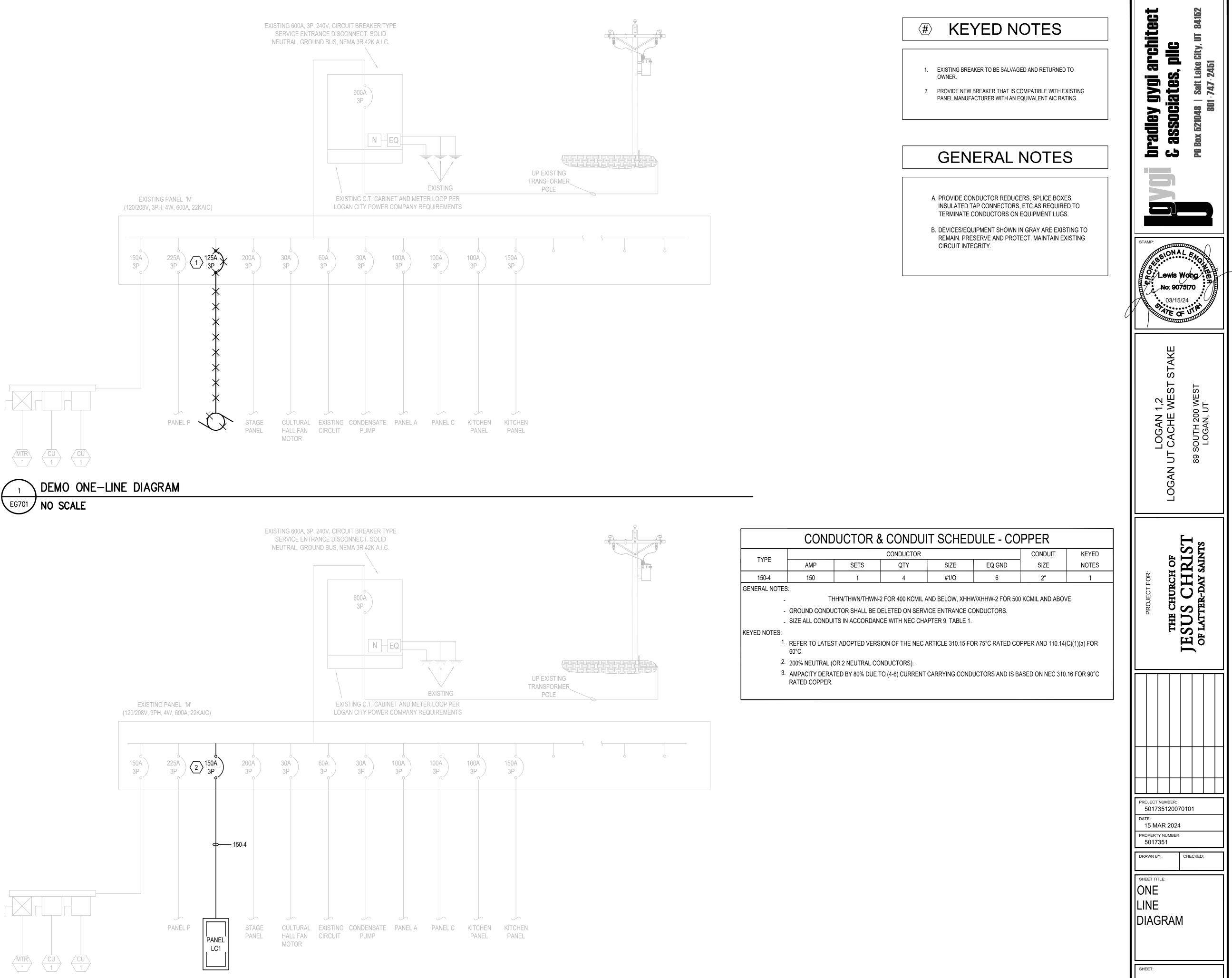


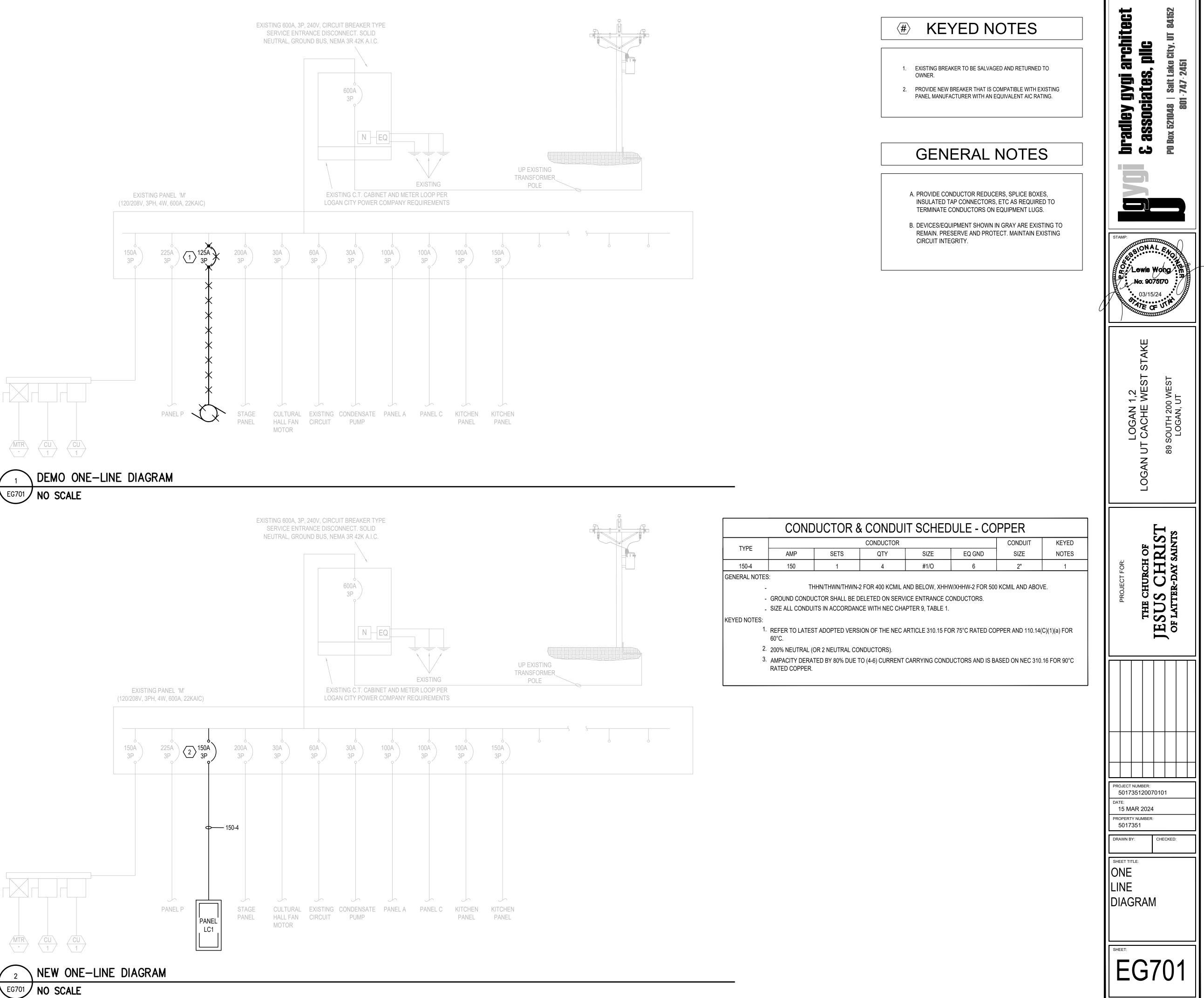
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TYPE	DESCRIPTIO	N						ELECTRIC		WIRE		COND	OCPD/				N FUSE	STF NEM			REMA	ake
TTPE	DESCRIPTIO	'IN	,	VOLT	PHASE	ELC	DAD	FLA	SETS	QTY S	IZE GND	SIZE	MOCP	TYPE	SIZE	POLE	SIZE	SIZE	E		KEWAR	110
	ROOF-TOP UNIT CONDENSING UNIT			208 208	3		00 MCA	53.6 28.0	1	-	4 8 8 10	1	80	C1 C1	-	-	-	-		14	В	
CU - 2b	CONDENSING UNIT EXHAUST FAN			208 120	3	35.0	00 MCA 00 MCA	28.0 1.4	1	3	8 10 12 12	3/4 3/4	50 50 20	C1 C1	-	-	-	-		4	٨	
ABBREVIATION	ONS:				$\sqrt{\Delta} = \sqrt{C}$			1.4			SCONNEC		20	-		JRRENT P					<u> </u>	
V/PH = VOLT HP = HORSE W = WATTS REMARKS:	AGE/PHASE				KVA = M FLA = F	KILOVOLT /	AMPERES AMPERES			GND = GF STR = ST PL = POL	ROUND ARTER	I		COND =	= CONDUI						CTURER)	
1. NEMA 1 FL 2. NEMA 1 NO 3. BREAKER 4. MANUAL S	JSED DISCONNECT SWITCH ON-FUSED DISCONNECT SWITC IN ENCLOSURE STARTER WITH THERMAL OVEF MOTOR CONTROLLER W/OUT T C STARTER	RLOAD	RLOAD						a. furni B. furni C. furni D. furni	ISHED, INS SHED ANE ISHED UNI ISHED, INS	D INSTALLE DER ANOTI STALLED AI	ND CONNE ED UNDER J HER DIVISI ND CONNE ED UNDER	ANOTHER ON BUT IN CTED UNE	DIVISION STALLED ER ANOT	REQUIRII AND CON HER DIVI	inected Sion.	UNDER D	0IV 26.				
8. MAGNETIC 9. NEMA 3R F 10. NEMA 3R	C STR/NON-FUSED DISCONNEC C STR/FUSED DISCONNECT CO FUSED DISCONNECT SWITCH NON-FUSED DISCONNECT SW E FREQUENCY DRIVE	MBINATION	ON							ERMAL MA		RCUIT BRE IT BREAKE										
12. RECEPTA 13. DIRECT C	ACLE/SPECIAL PURPOSE OUTL CONNECTION					DETECTIO		VE	- THE DIV			FOR MAY IN VITH MATE				BY ONE I	NCREME	NTAL S	SIZE <sup>-</sup>	TO FA	CILITATE	
15. Controi 16. LM-EB DIS 17. Split Sys	LLED WITH LIGHTS SCONNECT W/CNTRL WIRING T STEM. INDOOR UNIT FED FROM OTE: THE EC SHALL COORDINA	TO VFD M OUTDOOR U	INIT.						N. FTC) W		VED MEC	HANICAL S		VINGS/SU	BMITTALS	S AND BRI		NY DIS	SCRE	PANC	IFS WITH <sup>-</sup>	THE
	. ENGINEER OF RECORD IN WR																					
NAME:	LC1					MOUN	TING:			AINS:		DIMS				PECIAL E		NT				
TYPE:	NQ	VOLTAG				SURF FEE			LUGS	<u>S ON</u> LY		20 5.75	<u>"</u> W		GI GI	ROUND B JB-FEED	BUS BREAKE					
	ROOFTOP	PH <u>3</u>	-	ES	4	<u>BOT</u> FEED I	ROM:			<u>RATING:</u> _AMPS			<u> </u>		🖌 NE	JB-FEED EMA 3R						
СКТ			K AN BRK		/IRE	<u>N</u> VA	<u>1</u>	PHASE VA	<u> </u>	VA	WIRE								KT			
DF #	CIRCUIT DESCRIPTION RTU-1	CODE	P AN 3 8	/IP S		LOAD 6437	A 9799	В	C	LOAD 3362		AMP 50	P COI 3	DE CU-2		DESCRI	FIION	#	#	DF M		
L 3 L 5					-	6437 6437		9799	9799	3362 3362	-	-						4	4	M		
R 7	CONV RCPT SPACE		1 2	0	12	180	3542	3362	]	3362 3362	8	50	3	CU-2	2b			8	8	M		
11	SPACE						1	0002	3362	3362		-	+							M		
<u>1</u> 2 ⊺	SPACE						Ω	٦	0002	3302	-	-		SDV	CF			-	_	IVI		
15	SPACE			_			0	0		5502	-	-		SPA SPA	CE			1	14 16			
15 17 DIVERSITY FA	SPACE SPACE CTORS (DF):	TOR				ECTED VA	13341	13161	0 13161	39				SPA0 SPA0	CE CE		7E	1	14			
15 17 DIVERSITY FAI C=CONTINUOU N=NON-CONTI	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR	GEST MOTOR				ECTED VA ED AMPS	13341	13161 110 DIVERS	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A 14 KVA	1 = SEE D 2 = SHUN	RAWINGS F T-TRIP BRE	SPA SPA	CE CE JIT & CONE	DUCTOR SIZ		1	14 16			
15 17 DIVERSITY FAR C=CONTINUOL N=NON-CONTI R=RECEPTACL	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH	GEST MOTOR					13341	13161 110	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C	SPA SPA OR CONDU AKER FF DEVICE	CE CE JIT & CONE 5 =	GFCI BRE	AKER	1 1 1	14 16 18			
15 17 DIVERSITY FAR C=CONTINUOL N=NON-CONTI R=RECEPTACL K=KITCHEN EC	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH	GEST MOTOR					13341	13161 110 DIVERS	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A 14 KVA	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C	SPA SPA OR CONDU AKER FF DEVICE	CE CE JIT & CONE 5 =		AKER	1 1 1	14 16 18			
15 17 DIVERSITY FAR C=CONTINUOU N=NON-CONTI R=RECEPTACI K=KITCHEN EC	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH	GEST MOTOR					13341	13161 110 DIVERS	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A 14 KVA	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C	SPA SPA OR CONDU AKER FF DEVICE	CE CE JIT & CONE 5 =	GFCI BRE	AKER	1 1 1	14 16 18			
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15 17 DIVERSITY FAR C=CONTINUOL N=NON-CONTI R=RECEPTACL K=KITCHEN EC	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH	GEST MOTOR					13341	13161 110 DIVERS	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A 14 KVA	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C	SPA SPA OR CONDU AKER FF DEVICE	CE CE JIT & CONE 5 =	GFCI BRE	AKER	1 1 1	14 16 18			
15 17 DIVERSITY FAI C=CONTINUOU N=NON-CONTI R=RECEPTACL K=KITCHEN EC NOTES: NAME:	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH QUIPMENT P(EX) NQ	GEST MOTOR		CON		ED AMPS MOUN SURF FEE BOT	13341 111 TING: ACE D: TOM	13161 110 DIVERS	0 13161 110 SIFIED VA IED AMPS ED AMPS	39 11 2 12	10 A 14 KVA	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C THIS PAN	SPA( SPA( OR CONDU AKER FF DEVICE IEL, ALL OF I	CE CE JIT & CONE 5 = TS LUGS, BF CF CF CF SL CF CF	EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED	AKER TC. SHALL B QUIPME BUS BREAKE	1 1 1 E RATEC	14 16 18			
15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACL         K=KITCHEN EC         NOTES:         NAME:         TYPE:	SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES O=OTH QUIPMENT P(EX)	GEST MOTOR HER VOLTAG	WIR	CON 8 / 120 ES IPS	UNECTI	ED AMPS MOUN SURF FEE BOT FEED I	13341 111 TING: ACE D: TOM FROM:	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS ED AMPS	39 11 2 12	10 A 14 KVA 23 A	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV <u>DIMS</u> 20 5.75	T-TRIP BRE BREAKER IDE LOCK C THIS PAN	SPA( SPA( OR CONDU AKER FF DEVICE IEL, ALL OF I	CE CE JIT & CONE 5 = TS LUGS, BF CS C CS C CS C CS C CS C CS C CS C CS	EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED	AKER TC. SHALL B CQUIPME BUS BREAKE LUGS	<u>NT</u> R	14 16 18 D FOR			
15 17 DIVERSITY FAI C=CONTINUOU N=NON-CONTI R=RECEPTACL K=KITCHEN EC NOTES: NAME: TYPE: CKT DF #	SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES 0=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION	GEST MOTOR HER VOLTAG PH <u>3</u>	WIR AN BRK AN	CON 8 / 120 IES IPS R W IP S	JNECTI 0 4 /IRE IZE	ED AMPS MOUN SURF FEE BOT FEED I	13341 111 TING: ACE D: TOM ROM: A	13161 110 DIVERS	0 13161 110 SIFIED VA IED AMPS ED AMPS	39 11 2 12	10 A 14 KVA 23 A	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV <u>DIMS</u> 20 5.75 42 BRKF AMP	T-TRIP BRE BREAKER IDE LOCK C THIS PAN	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I	CE CE JIT & CONE 5 = TS LUGS, BF GF GF GF SL SL SL SL SL SL SL SL SL SL SL SL SL	PECIAL E REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED EMA 3R	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1           1	I4 I6 I8 D FOR			
15 17 DIVERSITY FAI C=CONTINUOU N=NON-CONTI R=RECEPTACL K=KITCHEN EC NOTES: NAME: TYPE: CKT DF #	SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION	GEST MOTOR HER VOLTAG PH <u>3</u> AIC	WIR AN BRK AM	CON 8 / 120 ES IPS IP 0		ED AMPS	13341 111 TING: ACE D: TOM ROM: 4	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS LUGS BUSS 225	AINS: S ONLY RATING: AMPS VA	10 A 14 KVA 23 A	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV <u>DIMS</u> 20 5.75 42 BRKF	T-TRIP BRE BREAKER IDE LOCK C THIS PAN	SPA( SPA( OR CONDU AKER FF DEVICE IEL, ALL OF I	CE CE JIT & CONE 5 = TS LUGS, BF GF GF GF SL SL SL SL SL SL SL SL SL SL SL SL SL	PECIAL E REAKERS, ET ROUND B JB-FEED JB-FEED EMA 3R JRGE PR	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1           1	14 16 18 D FOR	75° C		
15 17 DIVERSITY FAI C=CONTINUOU N=NON-CONTI R=RECEPTACL K=KITCHEN EC NOTES: NAME: TYPE: DF # 1 3 5	SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES 0=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION	GEST MOTOR HER VOLTAG PH <u>3</u> AIC CODE	WIR AM BRK PAN 2(  1(	CON 8 / 120 RES IPS R W MP S 0  0	NECTI 0 4 /IRE IZE I 12	ED AMPS	13341 111 TING: ACE D: TOM ROM: A	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS LUGS BUSS 225	AINS: S ONLY RATING: AMPS VA	I0 A I4 KVA I3 A WIRE SIZE	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV <u>DIMS</u> 20 5.75 42 BRKF AMP 50	T-TRIP BRE BREAKER IDE LOCK C THIS PAN	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I	CE CE JIT & CONE 5 = TS LUGS, BF GF GF SL SL SL SL SL SL SL SL SL SL SL SL SL	PECIAL E REAKERS, ET ROUND B JB-FEED JB-FEED EMA 3R JRGE PR	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1         1 <td< td=""><td>14 16 18 D FOR KT # 2</td><td>75° C</td><td></td><td></td></td<>	14 16 18 D FOR KT # 2	75° C		
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15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACL         K=KITCHEN EC         NOTES:         NAME:         TYPE:	SPACE SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES O=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH <u>3</u> AIC CODE	WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 2ES 2PS	UNECTI 10 11 12 12 12 12 12 12 12 12 12	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS <u>BUSS</u> 225 C C 0 0	AINS: S ONLY RATING: AMPS VA	10 A 14 KVA 13 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAG SPAG OR CONDU AKER FF DEVICE IEL, ALL OF I SPAG SPAG SPAG SPAG SPAG SPAG SPAG SPAG		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	NT R R R CF 1 1 1 1 1 1 1 1 1 1 1 1 1	I4 I6 I8 D FOR KT # 2 4 6 8 I0 I2 I4 I6 I8 I2 I4 I6 I8 I2 I2 I4	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         NNON-CONTI         R=RECEPTACL         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES 0=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH _ 3 AIC AIC CODE	WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 8 / 120 9 1PS R W MP S 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UNECTI 0 4 //IRE 12 12 12 12 12 12 12 12 12 12 12 12 12	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0	AINS: 39 11 2 12 12 39 12 12 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 3 3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	10 A 14 KVA 13 A 23 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAG SPAG OR CONDU AKER FF DEVICE IEL, ALL OF I SPAG EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXIS		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	NT ER OR CF 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	I4 I6 I8 D FOR KT # 2 4 6 8 10 I2 I4 I6 I8 20 22 24 26	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         NNON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NAME:	SPACE SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES 0=0TH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH <u>3</u> AIC CODE	WIR AW P AM 2 ()  1 () 1 () 1 () 1 () 1 () 1 () 1 () 1 ()	CON 8 / 120 8 / 120 9 1PS R W MP S 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VNECTI 1 1 1 1 1 1 1 1 1 1 1 1 1	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS <u>BUSS</u> 225 C C 0 0	AINS: S ONLY RATING: AMPS VA	10 A 14 KVA 13 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAC SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXI		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1         1 <td< td=""><td>I4 I6 I8 D FOR KT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30</td><td>75° C</td><td></td><td></td></td<>	I4 I6 I8 D FOR KT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES 0=0TH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH _ 3 AIC AIC CODE	WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 8 / 120 9 1PS R W MP S 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VNECTI 1 1 1 1 1 1 1 1 1 1 1 1 1	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0 0 0 0 0	AINS: 39 11 2 12 12 39 12 12 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 3 3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	10 A 14 KVA 13 A 23 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I SPAC SPAC EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXIS		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1         1 <td< td=""><td>14       16       18       0       18       0       10       12       4       6       8       10       12       14       6       18       20       22       24       26       28       30       32       34</td><td>75° C</td><td></td><td></td></td<>	14       16       18       0       18       0       10       12       4       6       8       10       12       14       6       18       20       22       24       26       28       30       32       34	75° C		
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15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES 0=0TH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT EXIST	GEST MOTOR HER VOLTAG PH _ 3 AIC AIC CODE	WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 8 / 120 9 1PS R W MP S 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VNECTI 1 1 1 1 1 1 1 1 1 1 1 1 1	ED AMPS MOUN SURF FEE FEED F VA	13341 111 111 TING: ACE D: TOM ROM: 1 A 0 0 0 0 0 0 0	13161 110 DIVERS DIVERSIF PHASE VA B 0 PHASE VA B 0 0	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0 0 0 0 0	AINS: 39 11 2 12 12 AINS: S ONLY RATING: AMPS VA LOAD	10 A 14 KVA 13 A 23 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAC SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I EL, ALL OF I SPAC SPAC EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXIS		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1         1 <td< td=""><td>14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       30       32       34       36</td><td>75° C</td><td></td><td></td></td<>	14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       30       32       34       36	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES 0=OTH QUIPMENT  P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT		WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 ES PS PS PS P	VNECTI 0 4 //IRE 1/	ED AMPS MOUN SURF FEE FEED F VA	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0 0 0 0 0 0	13161 110 DIVERS DIVERSIF PHASE VA B 0 0 0 0 0 0 0	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0 0 0 0 0 0	AINS: 39 11 2 12 12 12 12 12 12 12 12 12 12 12 1	10 A 14 KVA 13 A 13 A WIRE SIZE - - - 12 12 12 12 12 12 12 12 12 12	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV 4 = PROV 4 = PROV 4 = PROV 20 5.75 42 BRKF AMP 50 - 42 20 20 20 20 20 20 20 20 20 2	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I SPAC SPAC EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXIS		PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED TA 3R JRGE PR DESCRII	AKER  TC. SHALL B  CQUIPME BUS BREAKE LUGS OTECTC PTION	1         1 <td< td=""><td>14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       300       32       34       36       38       40</td><td>75° C</td><td></td><td></td></td<>	14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       300       32       34       36       38       40	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         NENON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH QUIPMENT  P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT		WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 ES PS PS PS P	VNECTI 0 4 //IRE 1/		13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0 0 0 0 0 0	13161         110         DIVERSIF         DIVERSIF         PHASE VA         B         0	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0 0 0 0 0 0 0 0 0 0 0 0 0	AINS: 39 1' 2 12 39 12 2 39 2 12 39 2 2 39 2 2 2 39 2 2 2 39 2 2 2 39 2 2 2 2 2 39 2 2 2 2 2 2 2 2 2 2 2 2 2	10       A         14       KVA         13       A         13       A         14       KVA         12       -         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         13       KVA	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV 4 = PROV 4 = PROV 50 5.75 42 BRKF AMP 50 - 42 0 20 20 20 20 20 20 20 20 20	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " U " D " D " H 2 SPACES R COI P 3  3  3  3  1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I EL, ALL OF I SPAC SPAC EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXIS		PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED TA 3R JRGE PR DESCRII	AKER	1         1 <td< td=""><td>14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       300       32       34       36       38       40</td><td>75° C</td><td></td><td></td></td<>	14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       300       32       34       36       38       40	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH QUIPMENT  P(EX)  NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT		WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 ES PS PS PS P	VNECTI 0 4 //IRE 1/		13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0 0 0 0 0 0	13161 110 DIVERS DIVERSIF PHASE VA B 0 PHASE VA B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0 0 0 0 0 0 0 0 0 0 0 0 0	AINS: 39 1' 2 12 39 12 2 39 2 12 39 2 2 39 2 2 2 39 2 2 2 39 2 2 2 39 2 2 2 2 2 39 2 2 2 2 2 2 2 2 2 2 2 2 2	10 A 14 KVA 13 A 13 A WIRE SIZE - - - - 12 12 12 12 12 12 12 12 12 12	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV 4 = PROV 4 = PROV 50 - 42 BRKF AMP 50 - 42 BRKF AMP 50 - 20 20 20 20 20 20 20 20 20 20	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " D " D " D " D " D " D " D " D " D "	SPAC SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I SPAC SPAC SPAC SPAC SPAC SPAC SPAC SPAC		E GFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII CUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT RCUIT	AKER	1         1 <td< td=""><td>I4     I6       I8     I6       I8     I6       I8     I6       I8     I6       I10     I12       I4     I6       I8     I0       I2     I4       I6     I8       I0     I2       I4     I6       I8     I0       I2     I4       I6     I8       I0     I2       I4     I6       I8     I0       I2     I4       I6     I8       I0     I2       I4     I6       I8     I0       I2     I4       I4     I6       I8     I6       I8     I6       I8     I6       I8     I6       I8     I6       I8     I6       I9     I8       I0     I8       I10     I8       I10     I8       I11     I8       I12     I8       I13     I8       I14     I8       I15     I8       I16     I8       I17     I8       I18     I8</td><td>75° C</td><td></td><td></td></td<>	I4     I6       I8     I6       I8     I6       I8     I6       I8     I6       I10     I12       I4     I6       I8     I0       I2     I4       I6     I8       I0     I2       I4     I6       I8     I0       I2     I4       I6     I8       I0     I2       I4     I6       I8     I0       I2     I4       I6     I8       I0     I2       I4     I6       I8     I0       I2     I4       I4     I6       I8     I6       I8     I6       I8     I6       I8     I6       I8     I6       I8     I6       I9     I8       I0     I8       I10     I8       I10     I8       I11     I8       I12     I8       I13     I8       I14     I8       I15     I8       I16     I8       I17     I8       I18     I8	75° C		

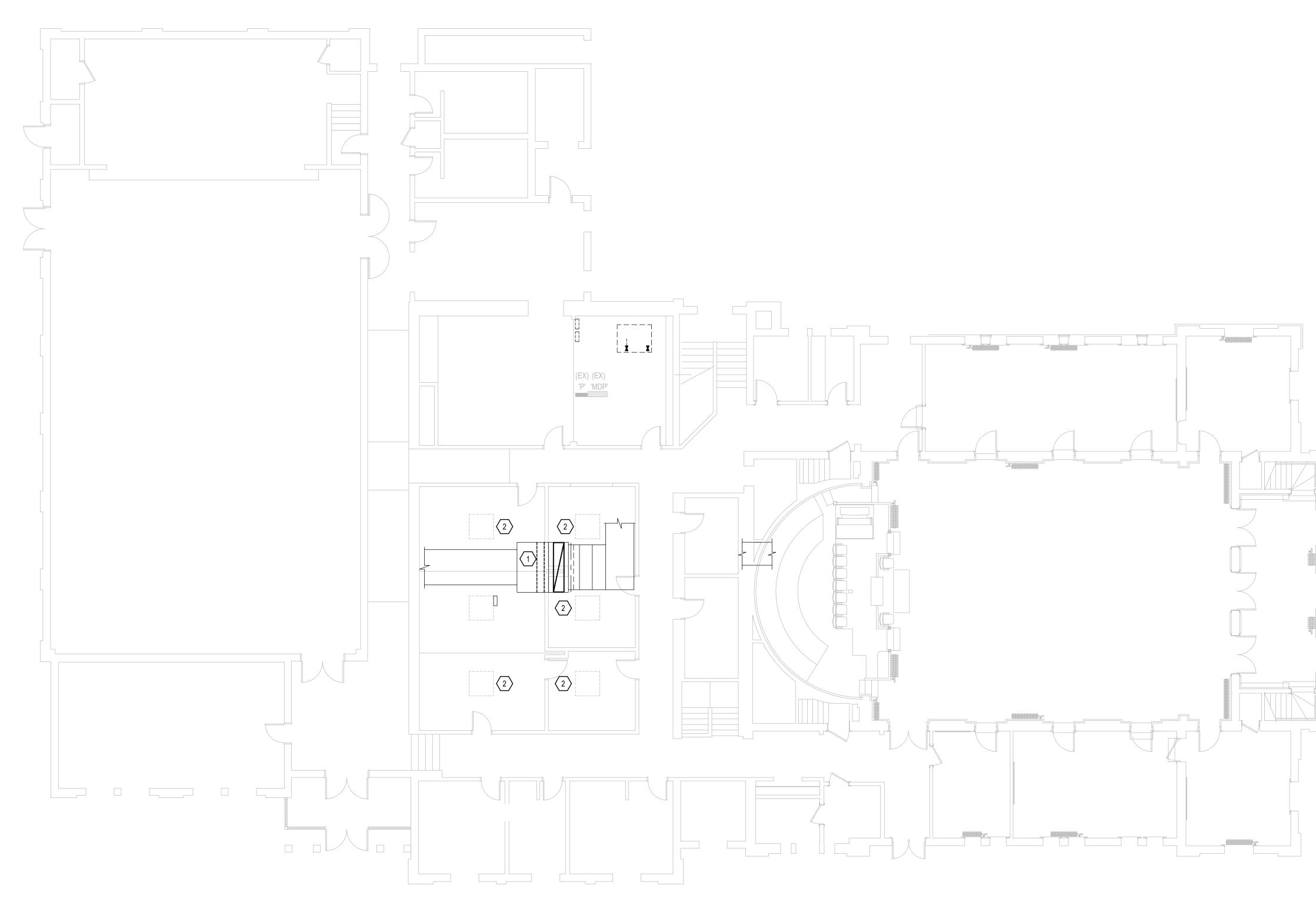
	1					EC			SCHI	EDUL	E	0		RENT PROT			STR		
TYPE	DESCRIPTION		VOL	T PHAS	SE LO	DAD	FLA	SETS	WIRE QTY	SIZE GN	COND D SIZE	OCPD/ MOCP	TYPE	DISCONN	IECT FU	ISE ZE	NEMA SIZE	-	REMARKS
			208			0 MCA	53.6	1	3	4 8		80	C1	-	-	-	-	14	В
CU - 2b	CONDENSING UNIT CONDENSING UNIT EXHAUST FAN		208 208 120	3	35.0	00 MCA 00 MCA 00 W	28.0 28.0 1.4	1	3	8 10 8 10 12 12	3/4	50 50 20	C1 C1	-	-	-	-		
EF - 1 BBREVIATI W = KILOW	ONS:		120		/OLT AMPER	I	1.4	1		12 12		I		- OVERCURF				<u>4</u>	<u>A</u>
//PH = VOLT P = HORSE / = WATTS	FAGE/PHASE POWER			KVA = FLA =	KILOVOLT / FULL LOAD	AMPERES AMPERES			GND = G STR = S1 PL = POL	ROUND	51		COND =	CONDUIT MAXIMUM (					CTURER)
. NEMA 1 N . BREAKER . MANUAL S . MANUAL M	JSED DISCONNECT SWITCH ON-FUSED DISCONNECT SWITCH IN ENCLOSURE STARTER WITH THERMAL OVERLO MOTOR CONTROLLER W/OUT THEI C STARTER	DAD	)AD					B. FURNI C. FURNI D. FURNI	Shed, IN Shed An Shed UN Shed, IN	D INSTALL DER ANO STALLED /	ED UNDER THER DIVIS AND CONNE	CTED UNDE ANOTHER D ON BUT INS CTED UNDE DIV 26 REQI	IVISION F TALLED A R ANOTH	Requiring and conne ier divisio	ECTED UND N.	ER DI	V 26.		
. MAGNETI( . NEMA 3R 0. NEMA 3R	C STR/NON-FUSED DISCONNECT ( C STR/FUSED DISCONNECT COMB FUSED DISCONNECT SWITCH NON-FUSED DISCONNECT SWITC E FREQUENCY DRIVE	BINATION						C2 = MAC NOTES:	RMAL MA GNETIC O	NLY CIRC	ircuit Bre Jit Breake	R							
	ACLE/SPECIAL PURPOSE OUTLET/ CONNECTION	ETC.										NCREASE TH RIAL AVAILA			ONE INCR	EMEN	TAL SIZE	E TO FA	ACILITATE
5. CONTRO 6. LM-EB DI 7. SPLIT SY EENERAL N LECTRICAL	TECTOR IN SUPPLY AND RETURN LLED WITH LIGHTS SCONNECT W/CNTRL WIRING TO STEM. INDOOR UNIT FED FROM O OTE: THE EC SHALL COORDINATE ENGINEER OF RECORD IN WRITH	VFD DUTDOOR UNIT	Γ. EMENTS (I	IE: MOCP	SIZE, UNIT	THERMAL I MATERIA	PROTECTIC			OVED ME(			NGS/SUB					EPANC	XES WITH THE
NAME: TYPE:	LC1 NQ ROOFTOP LOCATION	VOLTAGE: PH <u>3</u> AIC <u>10K</u>	WIRES		MOUN <u>SURF</u> FEE <u>BOT</u> FEED I	ACE ED: TOM FROM:		LUGS <u>BUSS</u>	<u>INS:</u> ONLY RATING: AMPS		5.7	) " W		GRO SUB- SUB- NEM	<u>CIAL EQUII</u> UND BUS FEED BRE FEED LUG A 3R GE PROTE	EAKEF SS	2		
CKT DF #	CIRCUIT DESCRIPTION	CODE P	BRKR AMP	WIRE SIZE	VA LOAD		PHASE VA	C	VA LOAD	WIR VIR			= (	CIRCUIT DE	ESCRIPTIC	N	CKT #	DF	
	RTU-1	3	_	4	6437 6437	9799	9799		3362 3362	8	50	3	CU-2a				2	M	
L 5	CONV RCPT		- 20	- 12	6437 180	3542	]	9799	3362 3362	-	- 50		CU-2k	)			6	M	
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	SPACE SPACE					0	0	]					SPAC SPAC				14 16		
17	SPACE CTORS (DF):				ECTED VA	13341	13161	0 13161		).7 К\	A CODES:		SPAC				18		
=NON-CONT =RECEPTAC =KITCHEN E	LES O=OTHER	ST MOTOR			TED AMPS		110 DIVERS DIVERSIF	110 SIFIED VA ED AMPS		10 A 44 KVA 23 A	3 = GFEF	IT-TRIP BREAI BREAKER IDE LOCK OF THIS PANE	F DEVICE	5 = GF S LUGS, BREAI	CI BREAKER		RATED FO	)R 75° C	
							•								CIAL EQUI		 IT		
CKT	P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION		WIRES _ AMPS BRKR	4 WIRE	MOUN SURF FEE BOT FEED F	ACE ED: TOM FROM:	PHASE VA	LUGS BUSS 225	AMPS	WIR	E BRK	0 " W 6 " D 		GRO SUB- SUB- NEM	UND BUS FEED BRE FEED LUG A 3R GE PROTE	AKEF S CTOF			
TYPE:	NQ BOILER ROOM LOCATION	PH <u>3</u> AIC CODE P 2	WIRES _ AMPS BRKR _ AMP _ 0	4 WIRE SIZE 12	SURF FEE BOT FEED I	ACE D: TOM FROM:	В	LUGS <u>BUSS</u> 225	S ONLY RATING: AMPS	WIRI SIZE	20 5.75 42 E BRK	0 " W 6 " D 1 H 2 SPACES R CODE 3		GRO SUB- SUB- NEM SURO	UND BUS FEED BRE FEED LUG A 3R GE PROTE	AKEF S CTOF	CKT # 2	DF	
TYPE: CKT DF # 1 3 5	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE F	WIRES _AMPS BRKR AMP 0 - 0	4 WIRE SIZE 12 - 12	SURF FEE FEED F FEED F	ACE D: FOM FROM: A 0		LUGS <u>BUSS</u> 225	S ONLY RATING: AMPS VA	WIR	20 5.75 42 E BRK E AMP 50 -	0     "     W       0     "     D       1     H       2     SPACES       R     CODE       9     CODE       3     -       -     -       -     -		GRO SUB- SUB- NEM/ SURO CIRCUIT DE	UND BUS FEED BRE FEED LUG A 3R GE PROTE	AKEF S CTOF	R CKT # 2 4 6		
TYPE: CKT DF # 1 3 5 7 9	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2	WIRES _AMPS BRKR AMP_ 0 - 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM:	В	LUGS BUSS 225 C	S ONLY RATING: AMPS VA	WIRI SIZE	20 5.75 42 E BRK E AMP	0 " W 6 " D 1 H 2 SPACES R CODE 3		GRO SUB- SUB- NEM/ SURO CIRCUIT DE	UND BUS FEED BRE FEED LUG A 3R GE PROTE	AKEF S CTOF	CKT # 2 4 6 8 10		
TYPE: CKT DF # 1 3 5 7 9 11 13	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2	WIRES AMPS BRKR AMP 0 - 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: FOM FROM: A 0	B 0	LUGS BUSS 225 C	S ONLY RATING: AMPS VA	WIRI SIZE - - - - - 12	20 5.75 42 E BRK E AMP 50 - - 50 - - 20	"     W       6     "       0     "       0     "       1     H       2     SPACES       R     CODE       3     _       -     -       3     _       -     -       3     _       -     -       3     _	EXIST	GRO SUB- SUB- NEM/ SURC CIRCUIT DE E E	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT # 2 4 6 8 10 12 14		
TYPE: CKT F # 1 3 5 7 9 11 13 15 17	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2	WIRES AMPS BRKR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM: A 0 0	B 0	LUGS BUSS 225 C	S ONLY RATING: AMPS VA	WIRI ) SIZE - - - - -	20 5.75 42 E BRK E AMP 50 - - 50 - - 50 -	"     W       6     "       0     "       0     "       1     H       2     SPACES       R     CODE       3     _       -     -       3     _       -     -       3     _       -     -       3     _	EXIST EXIST	GRO SUB- SUB- NEM/ SURO CIRCUIT DE	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT # 2 4 6 8 10 12 14 16 18		
TYPE: 	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2	WIRES _AMPS BRKR AMP 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM: A 0	B 0	LUGS BUSS 225 C 0	S ONLY RATING: AMPS VA	WIRI SIZE - - - - 12 12 12 12 - 12 - 12	20           5.75           42           BRK           AMP           50           -           50           -           50           -           50           -           20           20           20           20           20           20           20           20           20           20           20           20	"     W       6     "     D       7     H       2     SPACES       R     CODE       3     -       -     -       3     -       -     -       3     -       -     -       1     -       1     -	EXIST EXIST EXIST	GRO SUB- SUB- NEM/ SURC CIRCUIT DE E E TING CIRCU TING CIRCU	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT # 2 4 6 8 10 12 14 16 18 20 22		
TYPE: CKT DF # 1 3 5 7 9 11 13 15 17 19 21 23 25	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2	WIRES AMPS BRKR AMP 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM: A 0 0	B 0 0	LUGS BUSS 225 C	S ONLY RATING: AMPS VA LOAE	WIRI SIZE - - - - - - - - - - 12 12 12 - 12 - 12	20 5.75 42 50 50 - 50 - 50 - 50 - 50 - 20 20 20 20 20 20 20 20 20 20 20 20 20	"     W       6     "     D       7     H       2     SPACES       R     CODE       3     -       -     -       3     -       -     -       3     -       -     -       1     -       1     -	EXIST EXIST EXIST EXIST EXIST EXIST EXIST	E ING CIRCU ING CIRCU	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT # 2 4 6 8 10 12 14 16 18 20 22 22 24 26	DF	
TYPE: 	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2  1 1 1 1 1 1 1 1 1 1 1 1 1	WIRES AMPS BRKR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM: A 0 0 0 0	B 0 0	LUGS BUSS 225 C 0	S ONLY RATING: AMPS VA	WIRI SIZE - - - 12 12 12 12 12 12 12 12 12 12	20           5.75           42           E           BRK           AMP           50           -           50           -           50           -           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20	"     W       6     "     D       7     H       2     SPACES       R     CODE       3     -       -     -       3     -       -     -       3     -       -     -       1     -       1     -	EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST	GRO SUB- SUB- SUB- NEM, SURC INCUIT DE E E TING CIRCU TING CIRCU	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT           #           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30		
TYPE: CKT DF # 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2  1 1 1 1 1 1 1 1 1 1 1 1 1	WIRES AMPS BRKR AMP 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM: A 0 0 0	B 0 0	LUGS <u>BUSS</u> 225 C 0 0 0 0 0	S ONLY RATING: AMPS VA LOAE	WIRI SIZE - - - - - - - - - - 12 12 12 - 12 - 12	20 5.75 42 50 50 - 50 - 50 - 50 - 50 - 20 20 20 20 20 20 20 20 20 20 20 20 20	"     W       6     "     D       7     H       2     SPACES       R     CODE       3     -       -     -       3     -       -     -       3     -       -     -       1     -       1     -	EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST EXIST	GRO SUB- SUB- SUB- NEM/ SURC CIRCUIT DE E E E TING CIRCU TING CIRCU	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT           #           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34	DF	
TYPE: CKT DF # 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2  1 1 1 1 1 1 1 1 1 1 1 1 1	WIRES AMPS BRKR AMP 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM: A 0 0 0 0	B 0 0 0 0 830 0	LUGS BUSS 225 C C 0	S ONLY RATING: AMPS VA LOAE	WIRI SIZE - - - - - - - - - - 12 12 12 - 12 - 12	20 5.75 42 50 50 - 50 - 50 - 50 - 50 - 20 20 20 20 20 20 20 20 20 20 20 20 20	"     W       6     "     D       7     H       2     SPACES       R     CODE       3     -       -     -       3     -       -     -       3     -       -     -       1     -       1     -	EXIST EXIST	GRO SUB- SUB- SUB- SUB- NEM/ SURC CIRCUIT DE E E ING CIRCU ING CIRCU ING CIRCU ING CIRCU ING CIRCU UST FANS E E E E E E E E	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT           #           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38	DF	
TYPE: CKT DF # 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	PH <u>3</u> AIC CODE P 2  1 1 1 1 1 1 1 1 1 1 1 1 1	WIRES AMPS BRKR AMP 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 WIRE SIZE 12 - 12 12 12 12 12 12 12 12 12 12 12 12 12	SURF FEE FEED F FEED F	ACE D: TOM FROM: A 0 0 0 0 0 0 0	B 0 0 0 0 830	LUGS <u>BUSS</u> 225 C 0 0 0 0 0	S ONLY RATING: AMPS VA LOAE	WIRI SIZE - - - 12 12 12 12 12 12 12 12 12 12	20 5.75 42 50 50 - 50 - 50 - 50 - 50 - 20 20 20 20 20 20 20 20 20 20 20 20 20	"     W       6     "     D       7     H       2     SPACES       R     CODE       3     -       -     -       3     -       -     -       3     -       -     -       1     -       1     -	EXIST EXIST	GRO SUB- SUB- SUB- NEM/ SURC CIRCUIT DE E E E TING CIRCU TING CIRCU	UND BUS FEED BRE FEED LUG A 3R GE PROTE ESCRIPTIC	AKEF S CTOF	CKT           #           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36	DF	

							E			SCHE	DULE							0.75				
TYPE	DESCRIPTIO	N						ELECTRIC		WIRE		COND	OCPD/				N FUSE	STF NEM			REMA	ake
TTPE	DESCRIPTIO	'IN	,	VOLT	PHASE	ELC	DAD	FLA	SETS	QTY S	IZE GND	SIZE	MOCP	TYPE	SIZE	POLE	SIZE	SIZE	E		KEWAR	110
	ROOF-TOP UNIT CONDENSING UNIT			208 208	3		00 MCA	53.6 28.0	1	-	4 8 8 10	1	80	C1 C1	-	-	-	-		14	В	
CU - 2b	CONDENSING UNIT EXHAUST FAN			208 120	3	35.0	00 MCA 00 MCA	28.0 1.4	1	3	8 10 12 12	3/4 3/4	50 50 20	C1 C1	-	-	-	-		4	٨	
ABBREVIATION	ONS:				$\sqrt{\Delta} = \sqrt{C}$			1.4			SCONNEC		20	-		JRRENT P					<u> </u>	
V/PH = VOLT HP = HORSE W = WATTS REMARKS:	AGE/PHASE				KVA = M FLA = F	KILOVOLT /	AMPERES AMPERES			GND = GF STR = ST PL = POL	ROUND ARTER	I		COND =	= CONDUI						CTURER)	
1. NEMA 1 FL 2. NEMA 1 NO 3. BREAKER 4. MANUAL S	JSED DISCONNECT SWITCH ON-FUSED DISCONNECT SWITC IN ENCLOSURE STARTER WITH THERMAL OVEF MOTOR CONTROLLER W/OUT T C STARTER	RLOAD	RLOAD						a. furni B. furni C. furni D. furni	ISHED, INS SHED ANE ISHED UNI ISHED, INS	D INSTALLE DER ANOTI STALLED AI	ND CONNE D UNDER J HER DIVISI ND CONNE D UNDER	ANOTHER ON BUT IN CTED UNE	DIVISION STALLED ER ANOT	REQUIRII AND CON HER DIVI	inected Sion.	UNDER D	0IV 26.				
8. MAGNETIC 9. NEMA 3R F 10. NEMA 3R	C STR/NON-FUSED DISCONNEC C STR/FUSED DISCONNECT CO FUSED DISCONNECT SWITCH NON-FUSED DISCONNECT SW E FREQUENCY DRIVE	MBINATION	ON							ERMAL MA		RCUIT BRE IT BREAKE										
12. RECEPTA 13. DIRECT C	ACLE/SPECIAL PURPOSE OUTL CONNECTION					DETECTIO		VE	- THE DIV			FOR MAY IN VITH MATE				BY ONE I	NCREME	NTAL S	SIZE <sup>-</sup>	TO FA	CILITATE	
15. Controi 16. LM-EB DIS 17. Split Sys	LLED WITH LIGHTS SCONNECT W/CNTRL WIRING T STEM. INDOOR UNIT FED FROM OTE: THE EC SHALL COORDINA	TO VFD M OUTDOOR U	INIT.						N. FTC) W		VED MEC	HANICAL S		VINGS/SU	BMITTALS	S AND BRI		NY DIS	SCRE	PANC	IFS WITH <sup>-</sup>	THE
	. ENGINEER OF RECORD IN WR																					
NAME:	LC1					MOUN	TING:			AINS:		DIMS				PECIAL E		NT				
TYPE:	NQ	VOLTAG				SURF FEE			LUGS	<u>S ON</u> LY		20 5.75	<u>"</u> W		GI GI	ROUND B JB-FEED	BUS BREAKE					
	ROOFTOP	PH <u>3</u>	-	ES	4	<u>BOT</u> FEED I	ROM:			<u>RATING:</u> _AMPS			<u> </u>		🖌 NE	JB-FEED EMA 3R						
СКТ			K AN BRK		/IRE	<u>N</u> VA	<u>1</u>	PHASE VA	<u> </u>	VA	WIRE								KT			
DF #	CIRCUIT DESCRIPTION RTU-1	CODE	P AN 3 8	/IP S		LOAD 6437	A 9799	В	C	LOAD 3362		AMP 50	P COL 3	DE CU-2		DESCRI	FIION	#	#	DF M		
L 3 L 5					-	6437 6437		9799	9799	3362 3362	-	-						4	4	M		
R 7	CONV RCPT SPACE		1 2	0	12	180	3542	3362	]	3362 3362	8	50	3	CU-2	2b			8	8	M		
11	SPACE						1	0002	3362	3362		-	+							M		
<u>1</u> 2 ⊺	SPACE						Ω	٦	0002	3302	-	-		SDV	CF			-	_	IVI		
15	SPACE			_			0	0		5502	-	-		SPA SPA	CE			1	14 16			
15 17 DIVERSITY FA	SPACE SPACE CTORS (DF):	TOR				ECTED VA	13341	13161	0 13161	39				SPA SPA	CE CE		7E	1	14			
15 17 DIVERSITY FAI C=CONTINUOU N=NON-CONTI	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR	GEST MOTOR				ECTED VA ED AMPS	13341	13161 110 DIVERS	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A 14 KVA	1 = SEE D 2 = SHUN	RAWINGS F T-TRIP BRE	SPA SPA	CE CE JIT & CONE	DUCTOR SIZ		1	14 16			
15 17 DIVERSITY FAR C=CONTINUOL N=NON-CONTI R=RECEPTACL	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH	GEST MOTOR					13341	13161 110	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C	SPA SPA OR CONDU AKER FF DEVICE	CE CE JIT & CONE 5 =	GFCI BRE	AKER	1 1 1	14 16 18			
15 17 DIVERSITY FAR C=CONTINUOU N=NON-CONTI R=RECEPTACI K=KITCHEN EC	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH	GEST MOTOR					13341	13161 110 DIVERS	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A 14 KVA	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C	SPA SPA OR CONDU AKER FF DEVICE	CE CE JIT & CONE 5 =		AKER	1 1 1	14 16 18			
15 17 DIVERSITY FAR C=CONTINUOU N=NON-CONTI R=RECEPTACI K=KITCHEN EC	SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH	GEST MOTOR					13341	13161 110 DIVERS	0 13161 110 SIFIED VA	39 1 <sup>1</sup>	10 A 14 KVA	1 = SEE D 2 = SHUN 3 = GFEP	T-TRIP BRE BREAKER IDE LOCK C	SPA SPA OR CONDU AKER FF DEVICE	CE CE JIT & CONE 5 =	GFCI BRE	AKER	1 1 1	14 16 18			
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15 17 DIVERSITY FAI C=CONTINUOU N=NON-CONTI R=RECEPTACL K=KITCHEN EC NOTES: NAME: TYPE: CKT DF #	SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES 0=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION	GEST MOTOR HER VOLTAG PH <u>3</u>	WIR AN BRK AN	CON 8 / 120 IES IPS R W IP S	JNECTI 0 4 /IRE IZE	ED AMPS MOUN SURF FEE BOT FEED I	13341 111 TING: ACE D: TOM ROM: A	13161 110 DIVERS	0 13161 110 SIFIED VA IED AMPS ED AMPS	39 11 2 12	10 A 14 KVA 23 A	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV <u>DIMS</u> 20 5.75 42 BRKF AMP	T-TRIP BRE BREAKER IDE LOCK C THIS PAN	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I	CE CE JIT & CONE 5 = TS LUGS, BF GF GF GF SL SL SL SL SL SL SL SL SL SL SL SL SL	PECIAL E REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED EMA 3R	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	I I I I I I I I I I I I I I I I I I I	I4 I6 I8 D FOR			
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15           17           DIVERSITY FAR           C=CONTINUOU           N=NON-CONTI           R=RECEPTACI           K=KITCHEN EC           NOTES:           TYPE:	SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES O=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH <u>3</u> AIC CODE	WIR AW BRK P AN 2 (  1 ( 1 ( 1 (	CON 8 / 120 EES IPS IPS IPS IPS IP	UNECTI 0 4 //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE //IRE	ED AMPS	13341 111 TING: ACE D: TOM ROM: A A 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS ED AMPS LUGS 225 C	AINS: S ONLY RATING: AMPS VA	I0 A I4 KVA I3 A WIRE SIZE	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV <u>DIMS</u> 20 5.75 42 BRKF AMP 50 -	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H SPACES R COL P COL 3 	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I	CE CE JIT & CONE 5 = TS LUGS, BF GF GF SL SL SL SL SL SL SL SL SL SL SL SL SL	PECIAL E REAKERS, ET ROUND B JB-FEED JB-FEED EMA 3R JRGE PR	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	NT R R R CH 4 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	I4 I6 I8 D FOR KT # 2 4 6 8 I0	75° C		
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15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES 0=0TH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH <u>3</u> AIC CODE	WIR AW P AN 2 ((  1 (( 1 () 1 () 1 () 1 () 1 () 1 ()	CON 8 / 120 8 / 120 1PS R W MP S 0 0 0 0 0 0 0 0 0 0 0 0 0	VNECTI 12 12 12 12 12 12 12 12 12 12 12 12 12	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: 1 A 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS ED AMPS LUGS BUSS 225 C	AINS: S ONLY RATING: AMPS VA	10 A 14 KVA 13 A WIRE SIZE - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV DIMS 20 5.75 42 BRKF AMP 50 - - 50 - 50 - - 50 - - 50 -	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H SPACES R COL P COL 3 	SPAG SPAG OR CONDU AKER FF DEVICE IEL, ALL OF I SPAG SPAG SPAG SPAG SPAG SPAG SPAG SPAG	CE CE JIT & CONE 5 = TS LUGS, BF GF GF SL SL SL SL CIRCUIT RE RE	EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	NT R R R CF 4 2 4 4 6 1 1 1 1 1 1 1 1	I4 I6 I8 D FOR KT # 2 4 6 8 I0 I2 I4 I6 I8 I8	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NAME:         TYPE:	SPACE SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES O=OTH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH <u>3</u> AIC CODE	WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 2ES 2PS	UNECTI 10 11 12 12 12 12 12 12 12 12 12	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS <u>BUSS</u> 225 C C 0 0	AINS: S ONLY RATING: AMPS VA	10 A 14 KVA 13 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAG SPAG OR CONDU AKER FF DEVICE IEL, ALL OF I SPAG SPAG SPAG SPAG SPAG SPAG SPAG SPAG		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	NT R R R CF 1 1 1 1 1 1 1 1 1 1 1 1 1	I4 I6 I8 D FOR KT # 2 4 6 8 I0 I2 I4 I6 I8 I2 I4 I6 I8 I2 I2 I4	75° C		
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15         17         DIVERSITY FAR         C=CONTINUOU         NNON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NAME:	SPACE SPACE SPACE <u>CTORS (DF):</u> US M=MO INUOUS L=LAR LES 0=0TH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH <u>3</u> AIC CODE	WIR AW P AM 2 ()  1 () 1 () 1 () 1 () 1 () 1 () 1 () 1 ()	CON 8 / 120 8 / 120 9 1PS R W MP S 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VNECTI 1 1 1 1 1 1 1 1 1 1 1 1 1	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS <u>BUSS</u> 225 C C 0 0	AINS: S ONLY RATING: AMPS VA	10 A 14 KVA 13 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAC SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXI		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1         1 <td< td=""><td>I4 I6 I8 I8 I0 I0 I0 I0 I2 I4 I6 I6 I8 I0 I2 I4 I6 I8 I0 I2 I2 I4 I6 I8 I0 I2 I2 I4 I6 I8 I0 I2 I2 I4 I6 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8</td><td>75° C</td><td></td><td></td></td<>	I4 I6 I8 I8 I0 I0 I0 I0 I2 I4 I6 I6 I8 I0 I2 I4 I6 I8 I0 I2 I2 I4 I6 I8 I0 I2 I2 I4 I6 I8 I0 I2 I2 I4 I6 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8 I8	75° C		
15         17         DIVERSITY FAR         C=CONTINUOU         N=NON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES 0=0TH QUIPMENT P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH _ 3 AIC AIC CODE	WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 8 / 120 9 1PS R W MP S 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VNECTI 1 1 1 1 1 1 1 1 1 1 1 1 1	ED AMPS	13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0	13161 110 DIVERS DIVERSIF	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0 0 0 0 0	AINS: 39 11 2 12 12 39 12 12 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 3 3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	10 A 14 KVA 13 A 23 A WIRE SIZE - - - - - - - - - - - - -	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " W " D " H COL P COL 3  3  3  1 1	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I SPAC SPAC EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXIS		EGFCI BREA REAKERS, ET PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED MA 3R JRGE PR DESCRII DESCRII DESCRII CUIT RCUIT RCUIT RCUIT RCUIT RCUIT	AKER TC. SHALL B SUS BREAKE LUGS OTECTO	1         1 <td< td=""><td>14       16       18       0       18       0       10       12       4       6       8       10       12       14       6       18       20       22       24       26       28       30       32       34</td><td>75° C</td><td></td><td></td></td<>	14       16       18       0       18       0       10       12       4       6       8       10       12       14       6       18       20       22       24       26       28       30       32       34	75° C		
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15         17         DIVERSITY FAR         C=CONTINUOU         NENON-CONTI         R=RECEPTACI         K=KITCHEN EC         NOTES:         NOTES:         TYPE:	SPACE SPACE SPACE SPACE CTORS (DF): US M=MO INUOUS L=LAR LES O=OTH QUIPMENT  P(EX) NQ BOILER ROOM LOCATION CIRCUIT DESCRIPTION EXISTING CIRCUIT	GEST MOTOR HER VOLTAG PH 3 AIC	WIR AW P AM 2 (( ) 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (( 1 (	CON 8 / 120 ES PS PS PS P	VNECTI 0 4 //IRE 1/		13341 111 111 TING: ACE D: TOM ROM: A 0 0 0 0 0 0 0 0 0	13161         110         DIVERSIF         DIVERSIF         PHASE VA         B         0	0 13161 110 SIFIED VA IED AMPS BUSS 225 C C 0 0 0 0 0 0 0 0 0 0 0 0 0	AINS: 39 1' 2 12 39 12 2 39 2 12 39 2 2 39 2 2 39 2 2 2 39 2 2 2 39 2 2 2 2 39 2 2 2 2 2 3 3 9 2 2 2 2 3 3 9 2 2 2 2 2 3 3 9 2 2 2 2 2 3 3 9 2 2 2 2 2 3 3 9 2 2 2 2 2 3 3 9 2 2 2 2 2 3 3 9 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	10       A         14       KVA         12       A         12       -         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         12       12         13       KVA	1 = SEE D 2 = SHUN 3 = GFEP 4 = PROV 4 = PROV 4 = PROV 50 5.75 42 BRKF AMP 50 - 42 0 20 20 20 20 20 20 20 20 20	T-TRIP BRE BREAKER IDE LOCK C THIS PAN " U " D " D " H 2 SPACES R COI P 3  3  3  3  1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPAC SPAC OR CONDU AKER FF DEVICE IEL, ALL OF I EL, ALL OF I SPAC SPAC EXIS EXIS EXIS EXIS EXIS EXIS EXIS EXIS		PECIAL E ROUND B JB-FEED JB-FEED JB-FEED JB-FEED TA 3R JRGE PR DESCRII	AKER	1         1 <td< td=""><td>14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       300       32       34       36       38       40</td><td>75° C</td><td></td><td></td></td<>	14       16       18       0       18       0       10       11       12       14       16       18       10       12       14       16       18       20       22       24       26       28       300       32       34       36       38       40	75° C		
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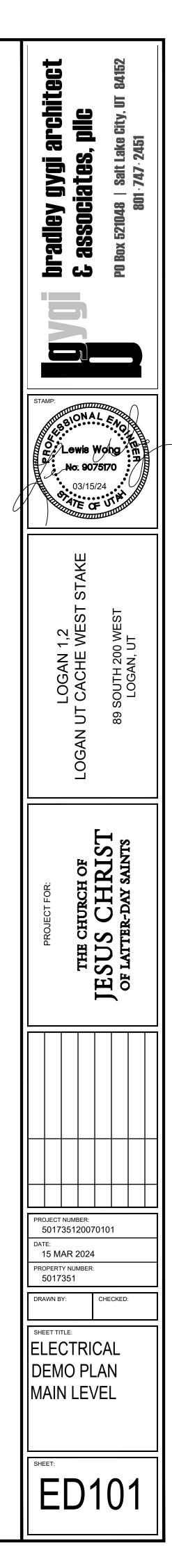


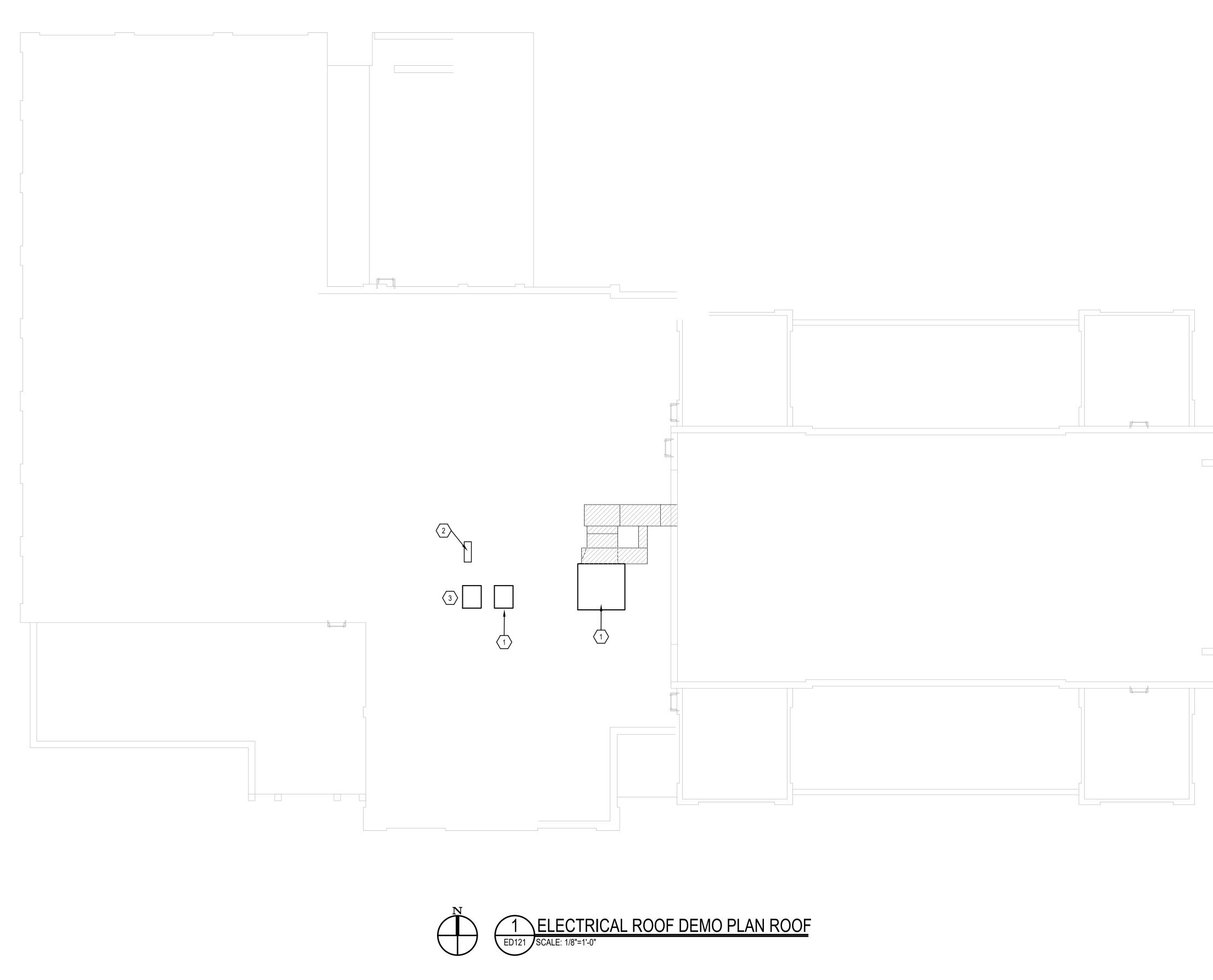
# 1 ELECTRICAL DEMO PLAN MAIN LEVEL

# (#) KEYED NOTES

- 1. EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT AND MAINTAIN CIRCUIT INTEGRITY.
- 2. EXISTING SKYLIGHT WITH EXHAUST FAN FUNCTION. DISCONNECT AND ABANDON RELATED ELECTRICAL WORK.

- A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
- F. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- G. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- H. EXISTING DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT.

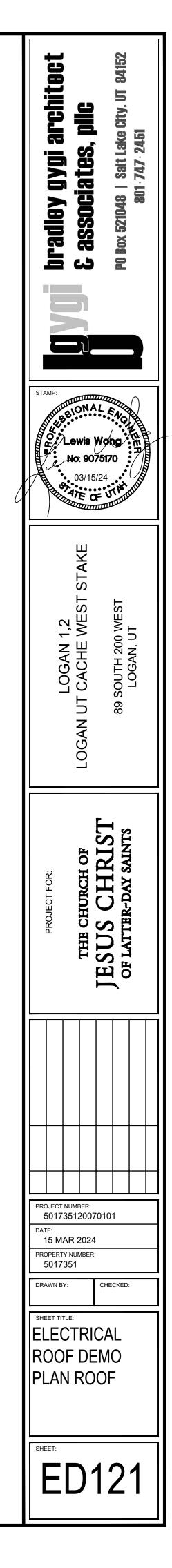


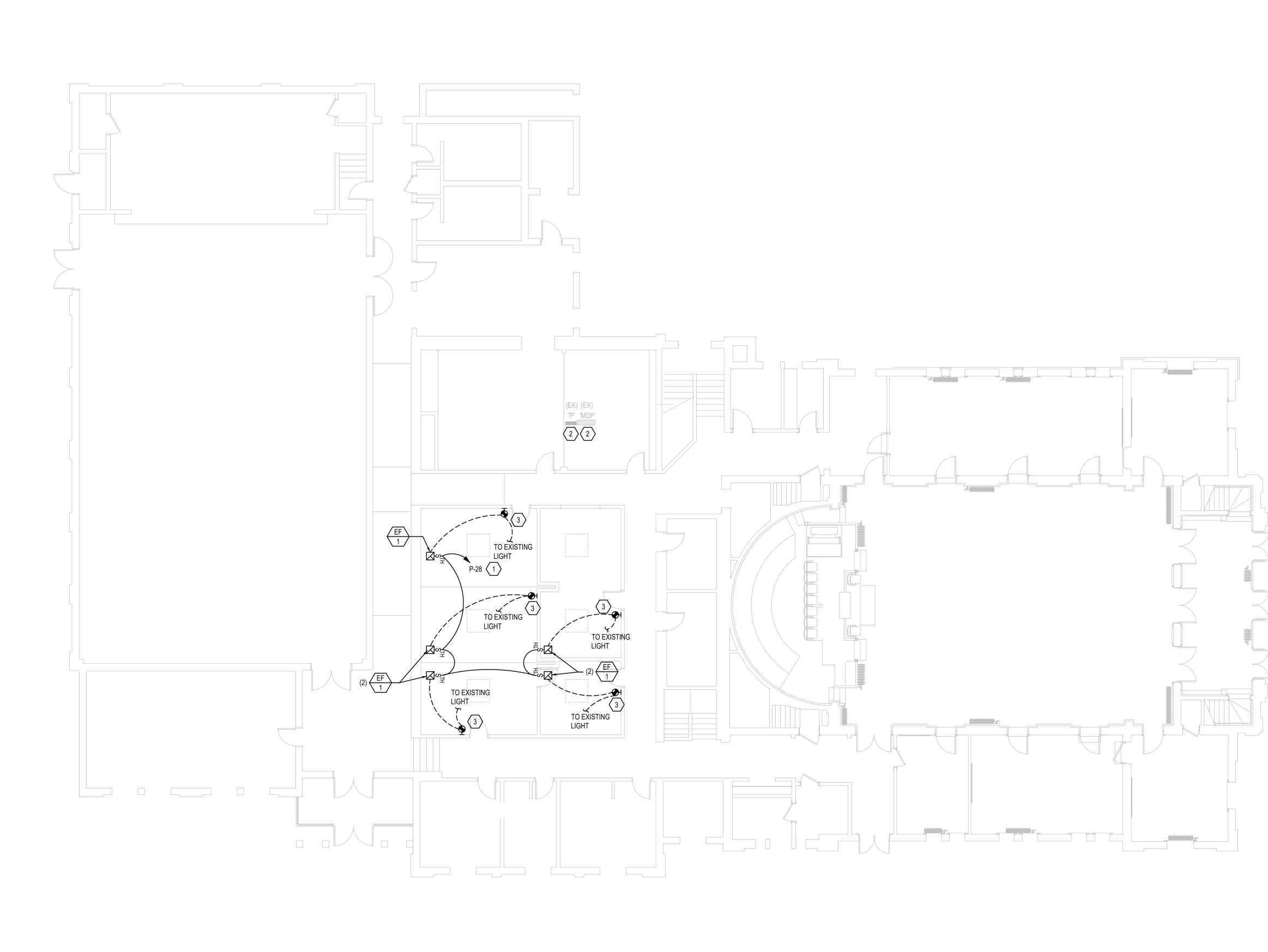


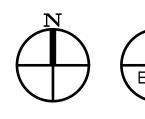
# (#) KEYED NOTES

- 1. EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. EC SHALL DEMOLISH EQUIPMENT DISCONNECT, CONDUIT AND WIRE BACK TO THE SOURCE.
- 2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND RECONNECTED FOR REROOF. PROTECT AND MAINTAIN CIRCUIT INTEGRITY.
- 3. EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. EC SHALL DEMOLISH EQUIPMENT DISCONNECT, AND WIRE BACK TO THE SOURCE. INTERCEPT CONDUIT IN MECHANICAL ATTIC SPACE AND REROUTE FOR CONNECTION TO NEW EXHAUST FANS.

- A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, ROOF ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
- F. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- G. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- H. EXISTING DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT.





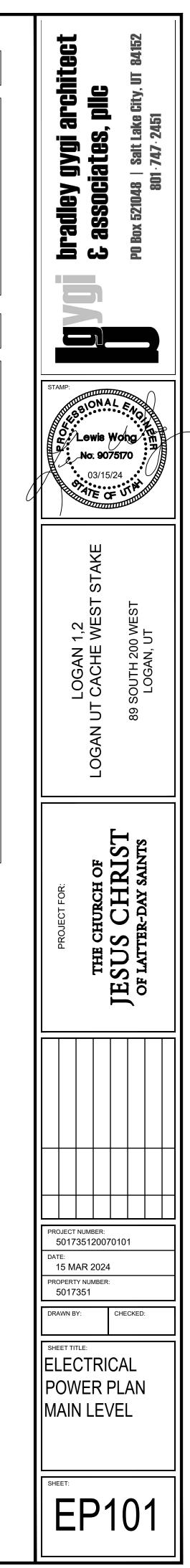


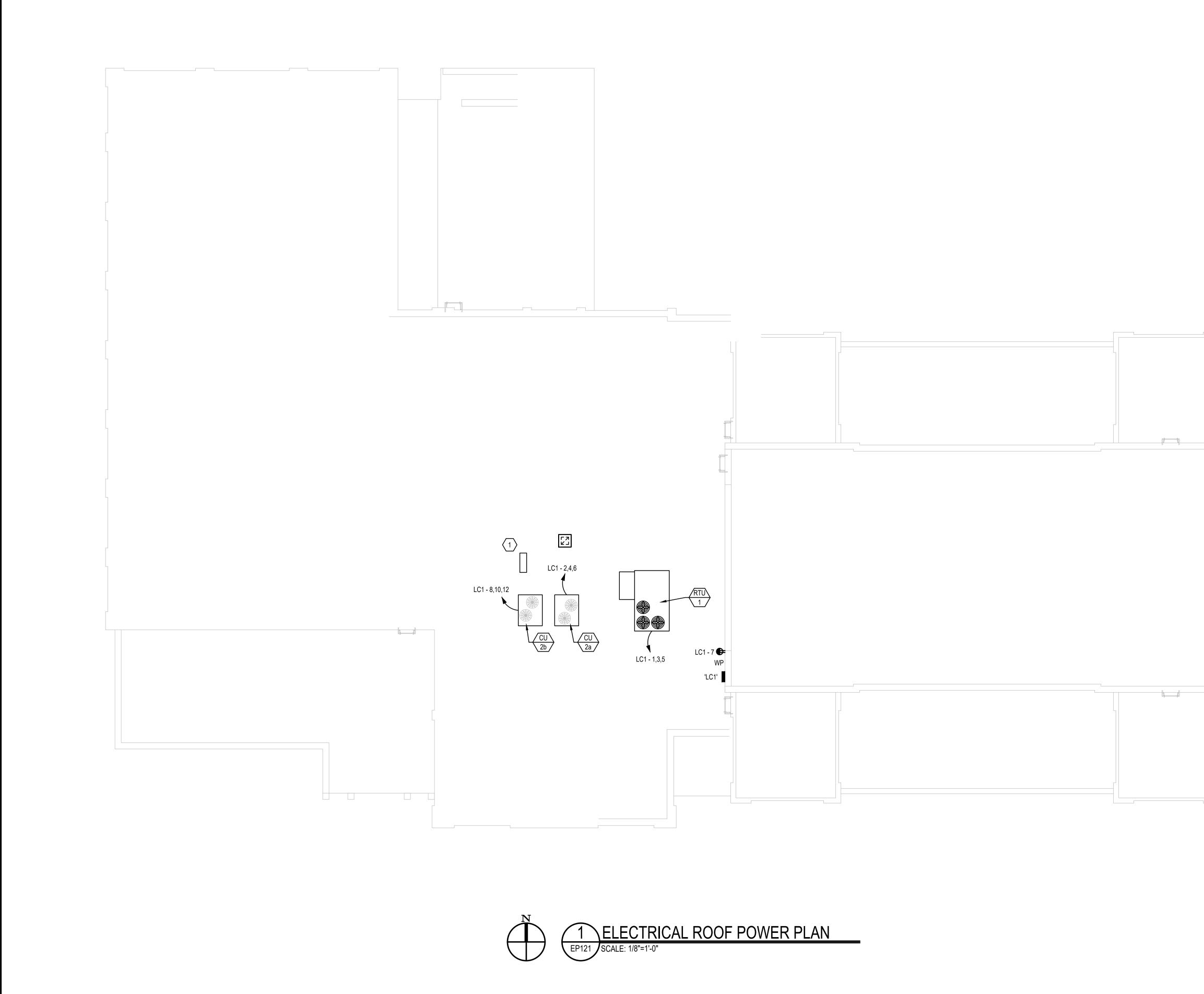
EP101 SCALE: 1/8"=1'-0"

# (#) KEYED NOTES

- 1. INTERCEPT EXISTING CONDUIT FRON DEMOLISHED AIR CONDITIONERS AND REROUTE FOR CONNECTION TO FANS.
- 2. ELECTRICAL PANEL LOCATED IN BASEMENT BOILER ROOM. SHOWN FOR REFERENCE. EC TO SITE VERIFY EXACT LOCATION.
- 3. REPLACE EXISTING SWITCH WITH A DUAL ZONE DUAL TECHNOLOGY WALL BOX VACANCY SENSOR TO CONTROL THE LIGHTS AND EXHAUST FAN IN THE ROOM SEPARATELY. ZONE FOR EXHAUST FAN SHALL HAVE AN ADJUSTABLE 30 MINUTE MAXIMUM TIME DELAY AFTER LIGHTS TURN OFF. SET INITIAL TIME DELAY FOR LIGHTS TO BE 15 MINUTE MINIMUM. SET TIME DELAYS PER OWNER'S REQUIREMENTS.

- A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- F. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- G. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR PANELS AFFECTED BY THE SCOPE OF THIS WORK.
- H. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS OF ITS CORRESPONDING PANEL WHERE IT IS INSTALLED.
- I. DISCONNECTS TO BE HEAVY DUTY AND SHALL BE LOCATED TO MEET NEC CLEARANCES. COORDINATE WITH EQUIPMENT LOCATIONS PRIOR TO ROUGH IN.
- J. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN.
- FURNISH AND INSTALL A CONVENIENCE OUTLET WITHIN 25' OF NEW EQUIPMENT IF NONE EXIST. TIE TO THE NEAREST 120V, 20A POWER RECEPTACLE CIRCUIT THAT HAS AVAILABLE SPACE AND CAPACITY THAT IS NOT DEDICATED FOR EQUIPMENT.
- L. CIRCUIT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT IN THE SPACE.





# (#) KEYED NOTES

1. RECONNECT HEAT PUMP TO EXISTING CIRCUIT.

- A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- F. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- G. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR PANELS AFFECTED BY THE SCOPE OF THIS WORK.
- H. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS OF ITS CORRESPONDING PANEL WHERE IT IS INSTALLED.
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- J. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN.
- K. FURNISH AND INSTALL A CONVENIENCE OUTLET WITHIN 25' OF NEW EQUIPMENT IF NONE EXIST. TIE TO THE NEAREST 120V, 20A POWER RECEPTACLE CIRCUIT THAT HAS AVAILABLE SPACE AND CAPACITY THAT IS NOT DEDICATED FOR EQUIPMENT.
- L. CIRCUIT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT IN THE SPACE.

